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SESSIONAL PAPERS

VOL. LXX — PART V

SECOND SESSION

OF THE

TWENTIETH LEGISLATURE

OF THE

PROVINCE OF ONTARIO

SESSION 1938

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TORONTO
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1939

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FOR PART V

REPORTS

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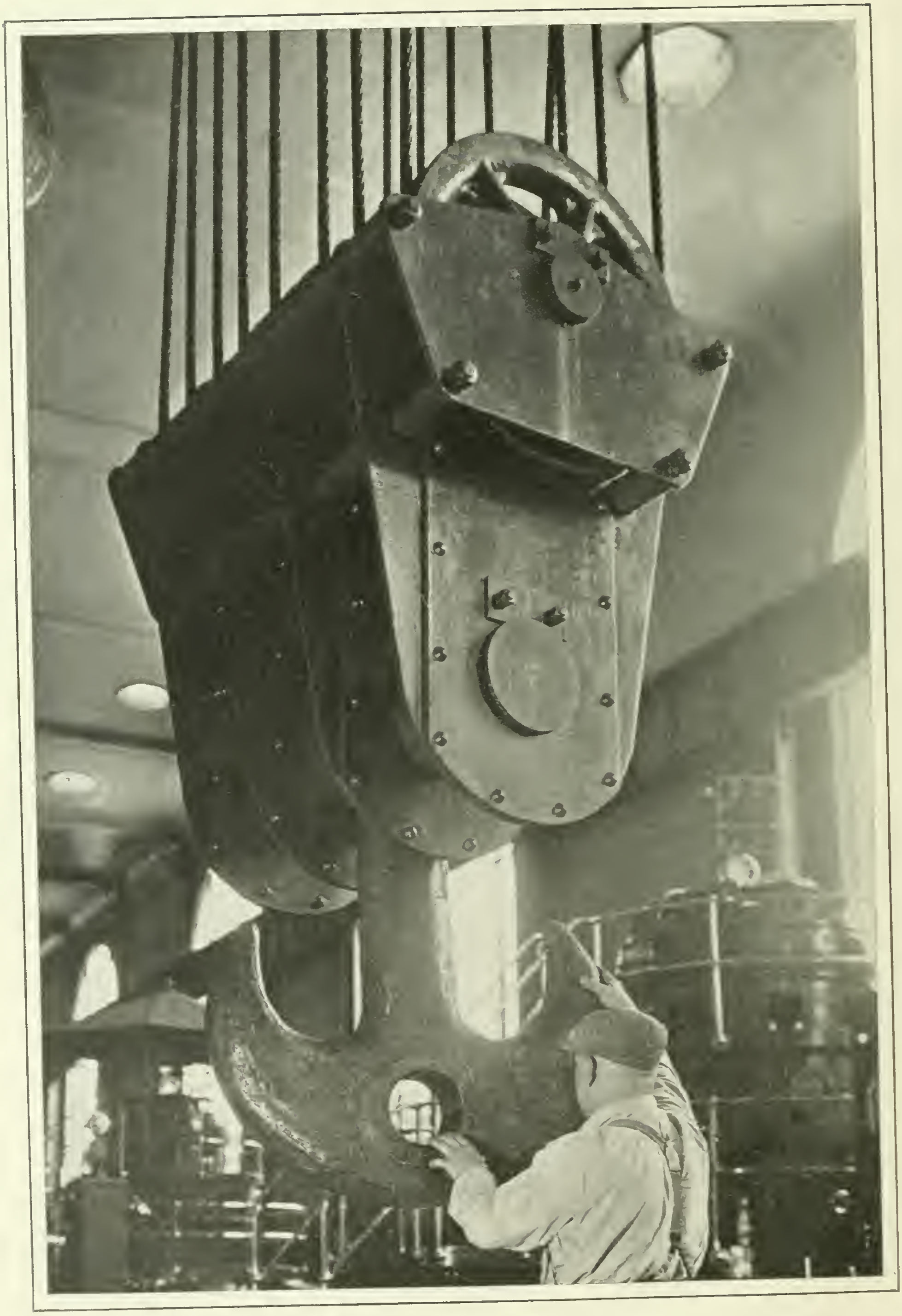

THE 150-TON MAIN HOOK OF THE CRANE IN QUEENSTON GENERATING STATION

The hook itself is 42 inches across. The hole is 9 inches in diameter. Two similar cranes are used in lifting the shaft and rotor when dismantling the main units. (See text page 22.)

THIRTIETH ANNUAL REPORT

OF

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

FOR THE YEAR ENDED OCTOBER 31st

1937

ONTARIO

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO

TORONTO
Printed and Published by T. E. Bowman, Printer to the King's Most Excellent Majesty
1938

THE HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO
1936-7

T. Stewart Lyon	*Chairman*
Hon. Arthur W. Roebuck, K.C., M.L.A. (to April, 1937)	*Commissioner*
Hon. Thomas B. McQuesten, K.C., M.L.A.	*Commissioner*
A. Murray McCrimmon	*Secretary and Controller*

THE HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO
From November, 1937

T. H. Hogg, B.A.Sc., C.E., D.Eng.	*Chairman and Chief Engineer*
Hon. Wm. L. Houck, B.Sc., M.L.A.	*Vice-Chairman*
J. Albert Smith, M.L.A.	*Commissioner*
R. T. Jeffery, B.Sc.	*Acting Secretary and Controller and Chief Municipal Engineer*

To His Honour

The Honourable Albert Matthews, LL.D.,

Lieutenant-Governor of Ontario

May It Please Your Honour:

The undersigned respectfully presents the Thirtieth Annual Report of The Hydro-Electric Power Commission of Ontario for the fiscal year which ended October 31st, 1937.

The record of the Commission's work presented in this Annual Report may be considered as relating to three principal fields—the municipal field, the field of rural supply and the Northern Ontario field. The first two comprise its activities on behalf of the co-operative systems and the last relates to its trusteeship of the Northern Ontario Properties on behalf of the Province. Throughout the various sections of the Report, dealing broadly with physical operation of the plants, constructional activities and financial statements, these fields of activity are clearly differentiated. The Report also presents for the calendar year 1937 financial statements and statistical data relating to the municipal electric utilities operating in conjunction with the various systems of the Commission for the supply of electrical service to the citizens of the Province.

Operating Conditions

Throughout the fiscal year ended October 31, 1937, operating conditions were unusually favourable. Relatively little damage to lines and equipment was caused by lightning, sleet or gales and interruptions to service were small both in duration and in areas affected. Much of the freedom from trouble is due to the policy of systematic testing and replacement of defective insulators and apparatus and to the employment of relays and automatic switches of modern design. In the section of the report dealing with the operation of the systems, sufficient information respecting the maintenance work carried out during the year is given to indicate the thoroughness exercised in maintaining the efficiency of the Commission's plant and equipment. Continuity of operation is increasingly demanded in rural, as well as in urban communities.

DISTRIBUTION OF PRIMARY POWER TO SYSTEMS

20-Minute Peak Horsepower—System Coincident Primary Peaks

System	1936	1937
	October	
Niagara system, 25-cycle	935,254	1,036,997
Dominion Power & Transmission	54,021	57,507
Georgian Bay system	26,555	29,310
Eastern Ontario system	111,421	125,395
Thunder Bay system	83,090	88,800
Manitoulin rural power district	138	137
Northern Ontario Properties:		
Nipissing district	4,115	4,812
Sudbury district	14,021	14,611
Abitibi district	76,944	93,834
Espanola district	101	0
Patricia district	4,182	5,013
St. Joseph district	1,702	2,708
Total	1,311,544	1,459,124
	December	
Niagara system, 25-cycle	1,005,630	1,070,778
Dominion Power & Transmission	55,898	56,032
Georgian Bay system	28,512	31,314
Eastern Ontario system	119,705	124,718
Thunder Bay system	80,858	85,235
Manitoulin rural power district	143	141
Northern Ontario Properties:		
Nipissing district	4,531	4,705
Sudbury district	15,147	16,153
Abitibi district	73,727	95,576
Espanola district	522	0
Patricia district	4,062	5,201
St. Joseph district	2,145	2,761
Total	1,390,880	1,492,614

Stream flow conditions also were more favourable than in the previous year. The customary seasonal reduction in stream flow available to the plants of the Georgian Bay and Eastern Ontario systems was made good in the Georgian Bay system by the transfer of power from the Niagara system, and in the Eastern Ontario system by power from the frequency-changer set at Chats Falls.

Load Conditions

The primary load on all systems, that is the sum of the primary peak loads for the year on the several systems, amounted to 1,468,222 horsepower. This is the highest aggregate primary load ever carried on the systems and is an increase of 150,000 horsepower or 11.4 per cent as compared with the corresponding figure for the previous year.

DISTRIBUTION OF POWER TO SYSTEMS—TOTAL PRIMARY AND SECONDARY

20-Minute Peak Horsepower—System Coincident Peaks

System	1936	1937
	October	
Niagara system, 25-cycle	1,006,166	1,126,675
Dominion Power & Transmission	54,021	57,507
Georgian Bay system	26,555	29,310
Eastern Ontario system	117,969	129,584
Thunder Bay system	133,914	134,678
Manitoulin rural power district	138	137
Northern Ontario Properties:		
Nipissing district	4,115	4,812
Sudbury district	14,021	14,611
Abitibi district	146,783	143,432
Espanola district	101	0
Patricia district	4,182	5,013
St. Joseph district	1,702	2,708
Total	1,509,667	1,648,467
	December	
Niagara system, 25-cycle	1,056,032	1,235,523
Dominion Power & Transmission	55,898	56,032
Georgian Bay system	28,512	31,314
Eastern Ontario system	125,999	149,853
Thunder Bay system	143,432	132,038
Manitoulin rural power district	143	141
Northern Ontario Properties:		
Nipissing district	4,531	4,705
Sudbury district	15,147	16,153
Abitibi district	157,507	159,517
Espanola district	522	0
Patricia district	4,062	5,201
St. Joseph district	2,145	2,761
Total	1,593,930	1,793,238

As in other recent years the percentage gains in load in the northern part of the Province were greater than in southern Ontario. The accompanying tabulation shows the distribution of primary power to the co-operative systems and to the several districts of the Northern Ontario Properties for the years 1936 and 1937; similar data for the total primary and secondary power distributed is also given.

Additions to Generating Equipment

There are still many undeveloped power sites in southern Ontario and also certain developments that by being modernized can be made to contribute economically to the power supplies of the smaller systems; but power supplies sufficient to take care of normal growth in load of the Niagara system must come from large developments. In southern Ontario the undeveloped hydraulic powers of the required magnitude are on international or interprovincial rivers. Apart from the protracted negotiations, which would inevitably precede agreements permitting the start of such developments, the actual construction period would be measured in years.

Notwithstanding the purchase of large blocks of power, chiefly for the Niagara system, it has been and still is the policy of the Commission to own and when practicable to develop additional economical sources of power in Ontario. During the past year therefore development or control of additional supplies of power from sources in Ontario has been arranged for in several localities.

In the Georgian Bay system the construction of a new 10,000 horsepower generating station on the Musquash river, the outlet to Georgian Bay from the Muskoka lakes, was commenced. It is to be completed in 1938.

In the Eastern Ontario system the Commission, in November, 1936, approved the purchase of three plants on the Otonabee river, the property of the Canada Cement Company. These plants are known as Douro at lock 24, with a capacity of 1,000 horsepower; Lakefield at lock 26, capacity 2,600 horsepower, and Young's Point at lock 27, capacity 600 horsepower. The Douro plant was rehabilitated and came into service at the end of July 1937. During the year the Commission also obtained control of two plants, formerly the property of the Quinte and Trent Valley Power Company. These plants are known as the Sills Island generating station at Frankford, capacity 2,200 horsepower and the Campbellford generating station of 1,000 horsepower. One factor that has made it practicable to include these small plants in a modern electric supply system is the advance made in the design of remote control and automatic equipment.

To augment the power supply of the Nipissing and Sudbury districts the Commission purchased from the Abitibi Power and Paper Company its plant at Crystal Falls on the Sturgeon river. This plant has a capacity of 10,000 horsepower.

Water Storage

In order to increase the low water flow of the Abitibi river and thereby the dependability of the power available at the Abitibi Canyon development, the Commission has started the construction of a storage dam to control Frederick House and Night Hawk lakes on the upper waters of the river. As certain incidental benefits to local navigation will result from this improvement the Provincial Government is defraying a proportion of the cost.

Increased Transmission and Distribution Facilities

During the year it has been necessary to provide increased transmission and distribution facilities in many districts.

In the Niagara system the transformer capacities of the 110,000-volt stations at Hamilton, Thorold, London and York are being increased. In the Georgian Bay system an additional section was changed over to 38,000-volt operation. This involved some new 38,000-volt line, extensive alterations in the auto-transformer station at Eugenia and the construction of a 6,000 kv-a auto-transformer station at Fergusonvale.

In the Eastern Ontario system about 120 miles of 110,000-volt circuit was erected between Chats Falls and a new 15,000 kv-a transformer station at Trenton. In the Thunder Bay system a 110,000-volt circuit about 100 miles long was built from Cameron Falls to a 9,000 kv-a transformer station under construction in the Long Lac area. A 450-kv-a distribution station was installed in the mining town of Geraldton and a 200-kv-a station was constructed at Beardmore.

In the Northern Ontario Properties an additional 4,500-kv-a transformer bank was installed at Timmins and the newly purchased Crystal Falls plant was connected to Coniston generating station.

In all, nearly 225 miles of 110,000-volt transmission lines and 117 miles of 44,000 and less voltage lines were built. This is exclusive of the extension to primary lines in rural power districts. Ten new distribution stations were installed throughout the various systems and the capacity of nineteen others was increased.

Rural Electrical Service

During the past year there took place the greatest expansion in rural electrical service on record. The total mileage of rural primary lines approved for construction was 2,300, substantially exceeding the previous high of 1,894 miles in 1930, and equalling in one year the mileage approved for construction in the five previous years 1932 to 1936. Some 13,000 new rural consumers were connected to the lines during the year. About half of these were new consumers on existing lines and half were new consumers on extensions built during the year.

To construct the new primary lines authorized during the year, and to provide equipment to serve new rural customers on existing lines required a capital expenditure of about $5,000,000. Approximately half of this is provided by the Provincial government as a grant-in-aid.

The following table shows, for the past decade, the miles of line approved for construction and the number of additional customers served each year; also the total estimated cost and the government grant-in-aid. It also gives the aggregate load in horsepower in October. Chiefly owing to the fact that a large number of summer cottages are served in connection with rural power districts, the rural peak occurs in July and August. The October peak is a better indication of the normal rural load growth.

TEN YEARS GROWTH IN RURAL ELECTRICAL SERVICE

Year	Miles of primary line approved	Number of consumers added	Capital approved for extensions	Provincial grants-in-aid approved	Horsepower supplied in October	Total number of consumers served
			$	$		
Up to 1927	3,134	25,283	6,683,601	3,332,286	13,273	25,283
1928	956	5,780	2,268,170	1,132,423	16,980	31,063
1929	1,157	6,277	2,668,241	1,334,120	21,138	37,340
1930	1,894	9,375	4,083,840	2,041,920	26,782	46,715
1931	1,249	8,886	2,644,702	1,299,071	31,790	55,601
1932	524	3,933	1,123,742	561,871	32,853	59,534
1933	247	2,311	590,862	295,431	32,372	61,845
1934	183	1,995	590,293	295,146	33,949	63,840
1935	538	3,962	1,423,745	707,882	37,190	67,802
1936	810	5,812	2,153,796	1,074,323	42,897	73,614
1937	2,297	12,580	5,743,061	2,860,010	50,758	86,194
Up to 1937	13,117	86,194	30,035,958	14,935,486	50,758	86,194

NOTE—The foregoing statistics relate to the miles of line approved for construction each year. The actual mileage constructed during the fiscal year varies from these figures but over a period of years is substantially the same in total.

Further substantial reductions were made during the fiscal year in the rates to rural consumers. On December 1, 1936, the service charge to ordinary farm classes was reduced to a maximum of $1.00 per month net, and in August 1937 this reduction was extended to all hamlet classes, except to summer cottages using electric stoves or other large appliances requiring a three-wire service. Insufficient time has elapsed since the last reduction was put into force to determine the full effect of these reductions upon the financial operation of the rural power districts. The low rates, however, have unquestionably stimulated a demand for the construction of primary lines to many areas not hitherto able to apply for service. The increase in the number of consumers on existing lines is especially satisfactory as when these new consumers have had time to install the necessary equipment the additional revenue derived will partially offset the reduced revenues from existing customers.

Capital Expenditures

The extensions to generating stations, transmission lines and distribution networks, storage works, etc., during the year, have required capital expenditure of about $8,041,000 as follows:—

CAPITAL ADDITIONS YEAR ENDED OCTOBER 31, 1937

Niagara system	$1,182,000
Georgian Bay system	954,000
Eastern Ontario system	1,831,000
Thunder Bay system	758,000
Manitoulin and Nipissing rural power districts	12,000
Northern Ontario Properties	1,584,000
	$6,321,000
Provincial rural grant (To October 31)	1,720,000
Total	$8,041,000

CAPITAL INVESTMENT

The total investment of The Hydro-Electric Power Commission of Ontario in power undertakings and hydro-electric railways is $305,372,410.22, exclusive of government grants in respect of construction of rural power districts' lines ($11,951,891.63); and the investment of the municipalities in distributing systems and other assets is $119,049,761.67, making in power and hydro-electric railway undertakings a total investment of $424,422,171.89.

The following statement shows the capital invested in the respective systems, districts and municipal undertakings, etc.:

Niagara system (including Hamilton street railway)	$211,913 157.81
Georgian Bay system	9,570,008.21
Eastern Ontario system	21,335,647.75
Thunder Bay system	19,477,394.17
Manitoulin rural power district	42,758.67
Nipissing rural power districts	35,189.12
Bonnechere storage	51,741.88
Office and service buildings	3,107,802.30
Construction plant and inventories	2,543,014.30
Preliminary surveys—St. Lawrence, Ottawa and Ogoki rivers	982,302.67
	$269,059,016.88
Northern Ontario Properties—Operated by H-E.P.C. on behalf of the Province of Ontario	33,738,073.77
Northern Ontario Properties—Construction plant and inventories	108,682.11
Guelph Radial Railway—Operated by H-E.P.C. on behalf of the Municipality of Guelph	461,201.06
Toronto-Port Credit-St. Catharines Radial Railways	2,005,436.40
	$305,372,410.22
Municipalities' distribution systems	95,732,133.33
Other assets of municipal Hydro utilities	23,317,628.34
	$424,422,171.89

RESERVES OF COMMISSION AND MUNICIPAL ELECTRIC UTILITIES

The total reserves of the Commission and the municipal electric utilities for depreciation, contingencies, stabilization of rates, sinking fund and insurance purposes amount to $184,016,209.78, made up as follows:

Niagara system (including Hamilton street railway)	$74,898,520.79
Georgian Bay system	4,226,757.37
Eastern Ontario system	8,358.674.05
Thunder Bay system	5,319,630.44
Manitoulin rural power district	9,655.70
Nipissing rural power districts	12,506.90
Office and service buildings and equipment	927,856.04
Bonnechere storage	11,519.37
Total reserves in respect of Commission's properties	$93,765,120.66
Northern Ontario Properties	3,345,089.28
Guelph Radial Railway	186,735.41
Fire insurance reserve	73,427.42
Miscellaneous reserves	137,981.99
Employers' liability, insurance and staff pension reserves	6,069,280.86
Total reserves of the Commission	$103,577,635.62
Total reserves and surplus of municipal electric utilities	80,438,574.16
Total Commission and municipal reserves	184,016,209.78

COMPARATIVE FINANCIAL STATEMENTS

NIAGARA SYSTEM

	1936	1937
	$ c.	$ c.
Operating Expenses and Fixed Charges		
Power purchased	3,110,848.14	3,836,382.42
Operation, maintenance and administration	4,461,243.58	4,491,192.50
Interest	10,079,221.26	9,507,517.24
Provision for depreciation and obsolescence	1,631,383.24	1,535,172.54
Provision for contingencies	604,475.08	604,061.68
Provision for stabilization of rates	1,963,599.60	2,337,400.00
Sinking fund	2,109,394.94	2,116,646.19
TOTAL COST OF POWER	23,960,165.84	24,428,372.57
REVENUE from municipalities at interim rates, from rural consumers and from private customers under flat rate contracts	24,365,449.12	24,703,427.00
Net balance credited to municipalities under cost contracts	405,283.28	275,054.43

GEORGIAN BAY SYSTEM

	1936	1937
	$ c.	$ c.
Operating Expenses and Fixed Charges		
Power purchased	53,545.91	56,168.59
Operation, maintenance and administration	379,933.24	407,895.94
Interest	402,626.68	394,273.33
Provision for depreciation and obsolescence	131,661.80	121,371.85
Provision for contingencies	28,079.05	28,221.24
Provision for stabilization of rates	....	79,548.60
Sinking fund	89,697.31	92,039.78
TOTAL COST OF POWER	1,085,543.99	1,179,519.33
REVENUE from municipalities at interim rates, from rural consumers and from private customers under flat rate contracts	1,137,998.72	1,204,168.95
Net balance credited to municipalities under cost contracts	52,454.73	24,649.62

RESPECTING THE SYSTEMS OF THE COMMISSION

EASTERN ONTARIO SYSTEM

	1936	1937
OPERATING EXPENSES AND FIXED CHARGES	$ c.	$ c.
Power purchased	869,352.72	860,445.93
Operation, maintenance and administration	819,378.24	869,431.57
Interest	889,036.20	899,144.29
Provision for depreciation and obsolescence	251,545.62	233,212.79
Provision for contingencies	57,884.54	59,938.67
Provision for stabilization of rates	....	240,499.00
Sinking fund	187,230.65	194,453.23
TOTAL COST OF POWER	3,074,427.97	3,357,125.48
REVENUE from municipalities at interim rates, from rural consumers and from private customers under flat rate contracts	3,263,920.73	3,480,076.27
Net balance credited to municipalities under cost contracts.	189,492.76	122,950.79

THUNDER BAY SYSTEM

	1936	1937
OPERATING EXPENSES AND FIXED CHARGES	$ c	$ c.
Power purchased	....	....
Operation, maintenance and administration	242,644.51	303,862.40
Interest	897,562.99	882,602.58
Provision for depreciation and obsolescence	159,401.00	159,220.92
Provision for contingencies	85,856.94	85,706.48
Provision for stabilization of rates	....	123,423.00
Sinking fund	148,812.06	253,889.59
TOTAL COST OF POWER	1,534,277.50	1,808,704.97
REVENUE from municipalities at interim rates, from rural consumers and from private customers under flat rate contracts	1,565,806.81	1,815,285.87
Net balance credited to municipalities under cost contracts.	31,529.31	6,580.90

Revenue of Commission

The revenue of the Commission at interim rates from the municipal utilities operating under cost contracts, from customers in rural power districts and from other customers with whom—on behalf of the municipalities—the Commission has special contracts, all within the Niagara, Georgian Bay, Eastern Ontario and Thunder Bay systems, Manitoulin Island and Nipissing rural power districts aggregates $31,225,988.90. The revenue of the Commission from customers served by the Northern Ontario properties, which are held and operated in trust for the Province, is $2,967,796.56, making a total of $34,193,785.46.

Summarized operating results of these systems and rural power districts and of the Northern Ontario properties, follow:

SUMMARIZED OPERATING RESULTS

OF THE

NIAGARA, EASTERN ONTARIO, GEORGIAN BAY, THUNDER BAY SYSTEMS

AND ALSO

NIPISSING AND MANITOULIN RURAL POWER DISTRICTS

Revenue; amount received from or billed against municipalities and other customers		$28,138,987.71	
Revenue from customers in rural power districts		3,087,001.19	
Total revenue, systems and rural			$31,225,988.90
Operation, maintenance, administration, interest and other current expenses		$22,526,349.13	
Provision for reserves—			
Depreciation and obsolescence	$2,050,275.40		
Contingencies	777,928.07		
Stabilization of rates	2,780,870.60		
Sinking fund	2,657,742.67		
		8,266,816.74	
			30,793,165.87
Net balance credited to municipalities under cost contracts			$ 432,823.03

SUMMARIZED OPERATING RESULTS

OF THE

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario
in trust for the Province of Ontario

Revenue; amount received from or billed against municipalities and other customers			$ 2,967,796.56
Operation, maintenance, administration, interest and other current expenses		$ 1,814,121.47	
Provision for reserves—			
Depreciation and obsolescence	$ 282,623.85		
Contingencies	64,820.77		
Sinking fund	884,098.07		
		1,231,542.69	
			3,045,664.16
Deficiency after sinking fund appropriation			$ 77,867.60

Municipal Electric Utilities

The following is a summation of the year's operation of the local electric utilities conducted by municipalities receiving power under cost contracts with the Commission:

Total revenue collected by the municipal electric utilities		$34,165,476.48
Cost of power	$20,532,736.85	
Operation, maintenance and administration	5,661,203.97	
Interest	1,752,287.58	
Sinking fund and principal payments on debentures	2,429,565.06	
Depreciation and other reserves	2,329,625.64	
Total		32,705,419.10
Surplus		$ 1,460,057.38

With regard to the local Hydro utilities operating under cost contracts, the following statements summarize for each of the four co-operative systems administered by the Commission, the financial status and the year's operations as detailed in Section X of the Report.

Niagara System

The total plant assets of the Niagara system utilities amount to $81,464,058.63. The total assets, including an equity in the H-E.P.C. of $35,053,984.34 aggregate $135,250,883.10. The reserves and surplus accumulated in connection with the local utilities, exclusive of the equity in the H-E.P.C., amount to $65,106,044.52, an increase of $4,561,441.50 during the year 1937. The percentage of net debt to total assets is 27.3, a reduction of 3.5 per cent.

The total revenue of the municipal electric utilities served by this system was $27,655,224.96, a decrease of $337,555.15, as compared with the previous year. After meeting all expenses in respect of operation, including interest, setting up the standard depreciation reserve amounting to $1,901,998.51, and providing $2,231,159.43 for the retirement of instalment and sinking fund debentures, the total net surplus for the year for the municipal electric utilities served by the Niagara system amounted to $998,132.08, as compared with $1,250,210.02 the previous year.

Georgian Bay System

The total plant assets of the Georgian Bay system utilities amount to $2,833,961.93. The total assets, including an equity in the H-E.P.C. of $1,301,000.37 aggregate $4,734,498.14. The reserves and surplus accumulated in connection with the local utilities, exclusive of the equity in H-E.P.C., amount to $2,946,917.89, an increase of $104,989.24 during the year 1937. The percentage of the net debt to total assets is 13.9, a reduction of 1.7 per cent.

The total revenue of the municipal electric utilities served by this system was $1,214,887.41, an increase of $21,105.72, as compared with the previous year. After meeting all expenses in respect of operation, including interest, setting up the standard depreciation reserve amounting to $83,412.64, and providing $51,668.60 for the retirement of instalment and sinking fund debentures, the total net surplus for the year for the municipal electric utilities served by the Georgian Bay system amounted to $48,756.13, as compared with $102,948.47 the previous year.

EASTERN ONTARIO SYSTEM

The total plant assets of the Eastern Ontario system utilities amount to $8,192,454.61. The total assets, including an equity in the H-E.P.C. of $1,706,790.06, aggregate $12,493,505.32. The reserves and surplus accumulated in connection with the local utilities, exclusive of the equity in H-E.P.C., amount to $8,530,708.45, an increase of $434,918.37 during the year 1937. The percentage of net debt to total assets is 14.0, a reduction of 1.9 per cent.

The total revenue of the municipal electric utilities served by this system was $3,565,496.87, an increase of $39,021.76, as compared with the previous year. After meeting all expenses in respect of operation, including interest, setting up the standard depreciation reserve amounting to $212,334.00, and providing $102,111.74 for the retirement of instalment and sinking fund debentures, the total net surplus for the year for the municipal electric utilities served by the Eastern Ontario system amounted to $290,449.54, as compared with $418,299.40 the previous year.

THUNDER BAY SYSTEM

The total plant assets of the Thunder Bay system utilities amount to $2,626,951.22. The total assets, including an equity in the H-E.P.C. of $1,970,663.57, aggregate $5,899,738.05. The reserves and surplus accumulated in connection with the local utilities, exclusive of the equity in H-E.P.C., amount to $3,367,482.06, an increase of $55,401.61 during the year 1937. The percentage of net debt to total assets is 9.4, a reduction of 0.4 per cent.

The total revenue of the municipal electric utilities served by this system was $1,315,931.40, a decrease of $9,138.11, as compared with the previous year. After meeting all expenses in respect of operation, including interest, setting up the standard depreciation reserve amounting to $42,359.57, and providing $11,676.67 for the retirement of instalment and sinking fund debentures, the total net surplus for the year for the municipal electric utilities served by the Thunder Bay system amounted to $64,835.16, as compared with $117,181.35 the previous year.

* * *

As recorded on the back of the title page to this Report, the personnel of the Commission was changed on November 1, 1937. The statistical data relating to the Commission and presented in this Report are for the fiscal year ended October 31, 1937, and therefore, in the main, record the progress of the undertaking prior to that change. It will be noted that in this Report the method of presenting the statistical data follows closely that of the previous year's Report.

Respectfully submitted,

T. H. HOGG,

Chairman

TORONTO, ONTARIO, MARCH 31ST, 1938

T. H. HOGG, ESQ., B.A.SC., C.E., D.ENG.,

Chairman, The Hydro-Electric Power Commission of Ontario,
Toronto, Ontario,

Sir,—I have the honour to submit, herewith, the Thirtieth Annual Report of The Hydro-Electric Power Commission of Ontario for the fiscal year which ended October 31, 1937. This report covers the operations of the Commission with regard to the supply of power to, or on behalf of, the partner Municipalities of the various Systems, as well as the administration of the Northern Ontario Properties, which are held and operated by the Commission in trust for the Province of Ontario.

I have the honour to be,

Sir,

Your obedient servant,

R. T. JEFFERY,

Acting Secretary and Controller

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Transmission Lines and Stations of The Hydro-Electric Power Commission of Ontario - At end of volume

THIRTIETH ANNUAL REPORT

OF

The Hydro-Electric Power Commission of Ontario

FOREWORD

and

Guide to the Report

THE Hydro-Electric Power Commission of Ontario administers a co-operative municipal-ownership enterprise, supplying power throughout the Province of Ontario. The Commission was created in 1906 by special act of the Legislature and followed investigations by advisory commissions appointed as a result of public agitation to prevent monopoly and to provide a more satisfactory supply of low-cost power in Southern Ontario. In 1907 The Power Commission Act (7-Edward VII Ch. 19) was passed amplifying and extending the Act of 1906 and this Act—modified by numerous amending acts which now form part of the Revised Statutes of Ontario, 1937, Chap. 62—constitutes the authority under which the Commission operates.

The Hydro-Electric Power Commission of Ontario consists of a Chairman and two Commissioners, all of whom are appointed by the Lieutenant-Governor-in-Council to hold office during pleasure. One of the Commissioners must be a member of the Executive Council and two may be members.

In 1909, work was commenced on a comprehensive transmission system and by the end of 1910 power was being supplied to several municipalities.

The Commission has now been supplying electrical energy for more than twenty-seven years and the Report contains diagrams depicting the growth of the enterprise. During this period the costs of electricity to the consumer have been substantially reduced and the finances of the enterprise have been established on a secure foundation.

At the end of 1937 the Commission was serving 795 municipalities in Ontario. This number included 26 cities, 100 towns, 277 villages and police villages and 392 townships. With the exception of 14 suburban sections of townships known as "voted areas", the townships and 96 of the smaller villages are served as parts of 177 rural power districts.

Financial Features of Co-operative Systems

The basic principle governing the financial operations of the undertaking is, that electrical service be given by the Commission to the municipalities and by the municipalities to the ultimate consumers at cost. Cost includes not only all operating and maintenance charges, interest on capital investment and reserves for renewals or depreciation, for obsolescence and contingencies, and for stabilization of rates, but also a reserve for sinking fund or capital payments on debentures.

The undertaking from its inception has been entirely self-supporting and no contributions have been made from general taxes except in connection with service in rural power districts. In this case, the Province, in pursuance of its long established policy of assisting agriculture and with the approval of the urban citizens, assists extension of rural electrical service by a grant-in-aid of the capital cost and in other ways as specified and detailed in the Report.

As the principle of "service at cost" is radically different from that obtaining in private organizations, where profit is the governing feature, it naturally results in different and in some ways unique administrative features.

The undertaking as a whole involves two distinct phases of operations as follows:

The *First* phase of operations is the provision of the electrical power—either by generation or purchase—and its transformation, transmission and delivery in *wholesale* quantities to individual municipal utilities, to large industrial consumers, and to rural power districts. This phase of the operations is performed by The Hydro-Electric Power Commission of Ontario as trustee for the municipalities acting collectively in groups or "systems," and the financial statements relating to these collective activities of the municipalities are presented in Section IX of the Report. Each system of municipalities, as provided in *The Power Commission Act*, forms an independent financial unit and the accounts are therefore segregated and separately presented for each system. In order, however, that there may be a comprehensive presentation of the co-operative activities of the undertaking as a whole, there are presented, in addition, for the four main systems and miscellaneous co-operative activities, a balance sheet of assets and liabilities, a summarization of cost distributions, a tabulation of fixed assets, and a summary combined statement respecting the various reserves.

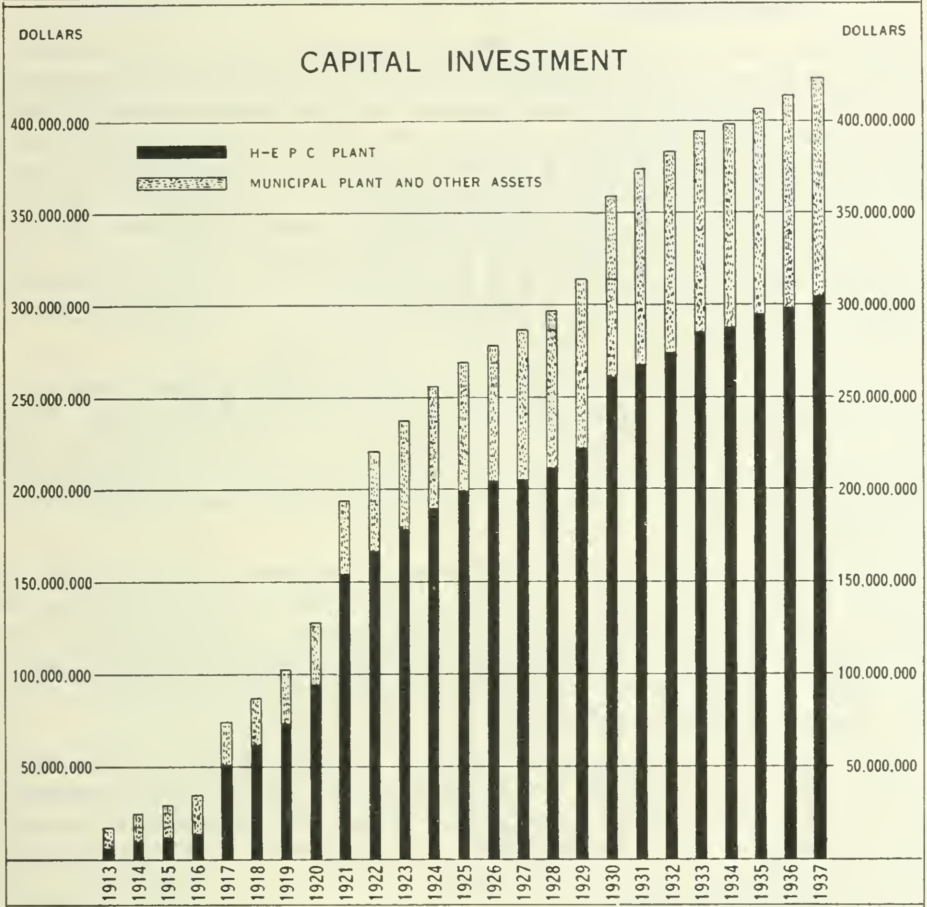
The *Second* phase of operations is the *retail* distribution of electrical energy to consumers within the limits of the areas served by the various municipal utilities and rural power districts. In the case of rural power districts, which usually embrace portions of more than one township, The Hydro-Electric Power Commission not only provides the power at wholesale, but also—on behalf of the respective individual townships—attends to all physical and financial operations connected with the distribution of energy at retail to the consumers within the rural power districts. The financial statements relating to the rural power districts are also presented in Section IX of the Report.

In the case of cities, towns, many villages and certain thickly populated areas of townships, retail distribution of electrical energy provided by the Commission is in general conducted by individual local municipal utility commissions under the general supervision of The Hydro-Electric Power Commission of Ontario. The balance sheets, operating reports and statistical data relating to the individual urban electrical utilities are presented in Section X of the Report.

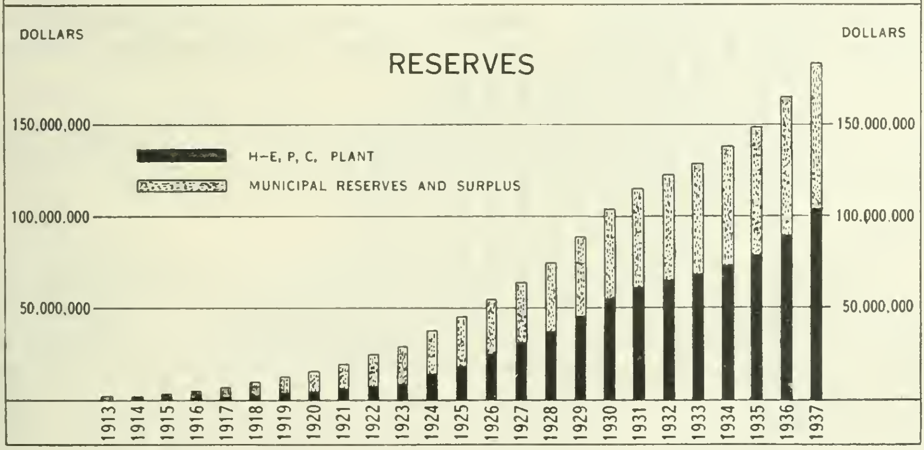
For the Northern Ontario Properties held and operated by the Commission in trust for the Province there are also presented in Section IX financial statements including a balance sheet; an operating account, and statements respecting reserves and capital expenditures.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

TWENTY-FIVE YEARS RECORD—ALL SYSTEMS



CAPITAL INVESTMENT



RESERVES

Further details respecting administration, and explanations of the financial tables presented in the Report are given in the introductions to sections IX and X on pages 169 and 299.

Co-operative Systems Operating

From time to time in accordance with provisions in *The Power Commission Act* various groups of municipalities have been co-ordinated to form systems for the purpose of obtaining power supplies from convenient sources. In some cases these small systems grew until their transmission lines interlocked with those of adjacent systems and it proved beneficial to consolidate the transmission networks and the financial and administrative features. In the well settled parts of the Province, known as Old Ontario, this process has now reached a more stable condition and the municipalities of the southern part of the Province are now combined in three systems: the Niagara system, the Georgian Bay system and the Eastern Ontario system. One other system of partnership municipalities is known as the Thunder Bay system.

The Niagara System is the largest and most important system. It embraces municipalities in all the territory between Niagara Falls, Hamilton and Toronto on the east and Windsor, Sarnia and Goderich on the west. It is served with electrical energy generated at plants on the Niagara river, supplemented with power transmitted from generating plants on the Ottawa river and with power purchased from Quebec companies.

The Georgian Bay System comprises municipalities in that part of the Province which surrounds the southern end of Georgian Bay and lies to the north of the territory served by the Niagara system. It includes the districts surrounding lake Simcoe and extends as far north as Huntsville in the Lake of Bays district and south to Port Perry. Its power supplies are derived chiefly from local water power developments.

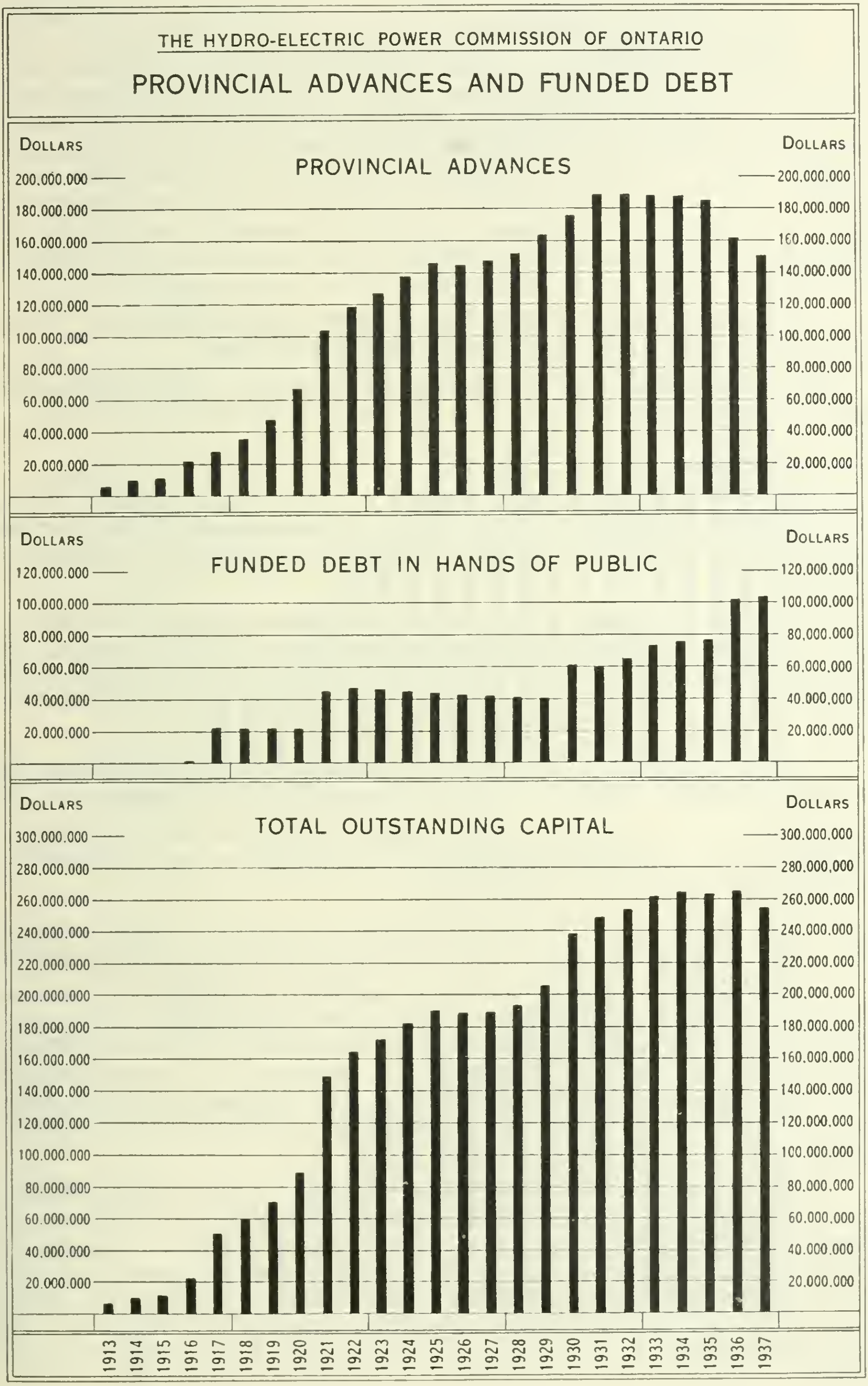
The Eastern Ontario System serves all of Ontario east of the areas comprising the Georgian Bay and the Niagara systems. It includes the districts of Central Ontario, St. Lawrence, Rideau, Ottawa and Madawaska; formerly separate systems. Its power supplies are from local developments supplemented by purchases from other sources.

The Thunder Bay System comprises the cities of Port Arthur and Fort William, adjacent rural sections and the village of Nipigon. Two developments on the Nipigon river supply power.

A small rural district known as *Manitoulin Rural Power District* on Manitoulin island in the northern area of lake Huron is served by the Commission as an independent unit.

Northern Ontario Properties

In addition to its operations on behalf of the partner municipalities, the Commission, under an agreement with the Province, holds and operates the Northern Ontario Properties in trust for the Province. For the purposes of financial administration these properties are treated as one unit. The Northern Ontario Properties lie in the portion of the Province north of Lake Nipissing and French River areas, exclusive of the territory served by the Thunder Bay system. The principal areas in this vast territory at present receiving service are


THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
PROVINCIAL ADVANCES AND FUNDED DEBT
DOLLARS
PROVINCIAL ADVANCES
200,000,000
180,000,000
160,000,000
140,000,000
120,000,000
100,000,000
80,000,000
60,000,000
40,000,000
20,000,000
DOLLARS
FUNDED DEBT IN HANDS OF PUBLIC
120,000,000
100,000,000
80,000,000
60,000,000
40,000,000
20,000,000
DOLLARS
TOTAL OUTSTANDING CAPITAL
300,000,000
280,000,000
260,000,000
240,000,000
220,000,000
200,000,000
180,000,000
160,000,000
140,000,000
120,000,000
100,000,000
80,000,000
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1936
1937

the *Nipissing District* centering around the city of North Bay on the shore of lake Nipissing; the *Sudbury District* comprising the city of Sudbury and the adjacent mining area known as Sudbury Basin; the *Abitibi District* comprising the territory served by 25-cycle power from the Abitibi Canyon development; the *Espanola District* in the southern portion of the district of Sudbury serving mining properties with 60-cycle power; the *Patricia District* comprising the territory within transmission distance of the Ear Falls development at the outlet of Lac Seul on the English river including the Red Lake mining area, and *St. Joseph District* comprising the territory immediately north of lake St. Joseph in the territorial district of Patricia served with power from a development at Rat Rapids on the Albany river.

The geographic boundaries of the various systems are shown on the map of transmission lines and stations at the back of the Report.

The power supplies for the systems and Northern Ontario districts are listed in the first table of Section II of the Report on pages 8 and 9.

The Annual Report

The table of contents, pages xix and xx lists the matters dealt with in the Report. At the end of the Report there is a comprehensive index. To those not conversant with the Commission's Reports, the following notes will be useful.

In Section II, pages 6 to 68, dealing with the operations of the systems, are a number of diagrams showing graphically the monthly loads on the several systems and districts. Tables are also presented showing the amounts of power taken by the various municipalities in October during the past three years.

The rural distribution work of the Commission has proved of widespread interest and special reference to this is made in Section III on pages 94 to 115.

In Sections IV, V and VI will be found information respecting progress of work on new power developments and on transmission system extensions, together with photographic illustrations.

About one-half of the Report is devoted to financial and other statistical data which are presented in two sections IX and X already referred to above.

Frequent enquiries for the rates for service to consumers are received by the Commission. For the urban municipalities served by the Commission these are given in statement "E" starting on page 448. For the rural power districts they are given in a table starting on page 110. Certain statistical data resulting from the application of the rates in urban utilities are given in statement "D". This statement is prefaced by a special introduction starting on page 430.

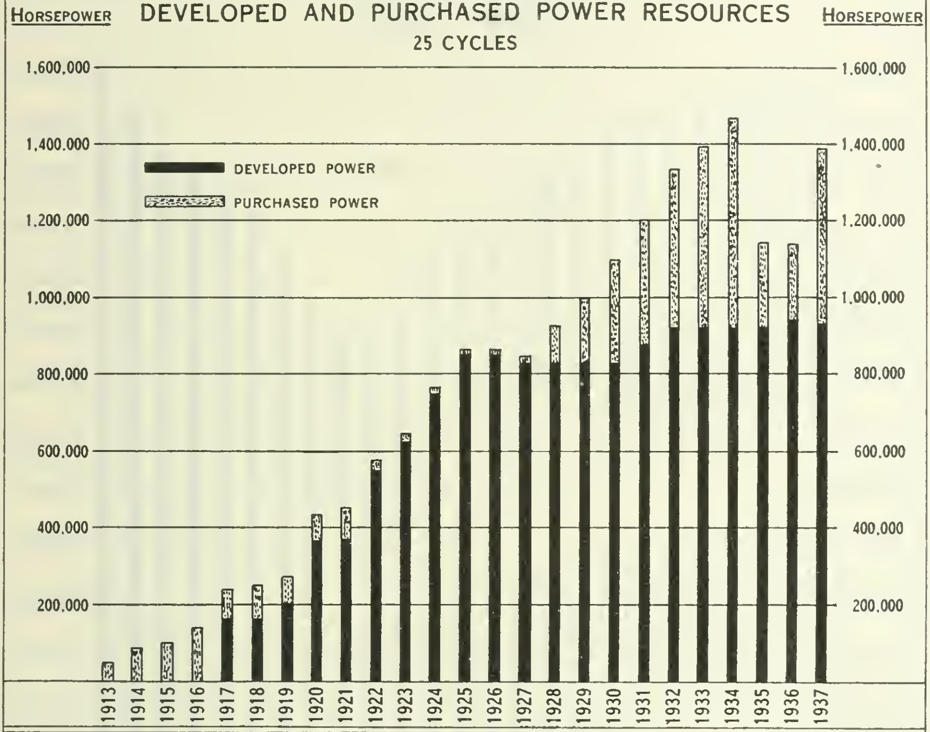
In its Annual Reports the Commission aims to present a comprehensive statement respecting the activities of the whole undertaking under its administration. Explanatory statements are suitably placed throughout the Report. The Commission receives many letters asking for general information respecting its activities, as well as requests for specific information concerning certain phases of its operations. In most cases these enquiries can satisfactorily be answered by simply directing attention to information presented in the Annual Report.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

TWENTY-FIVE YEARS RECORD —— NIAGARA SYSTEM

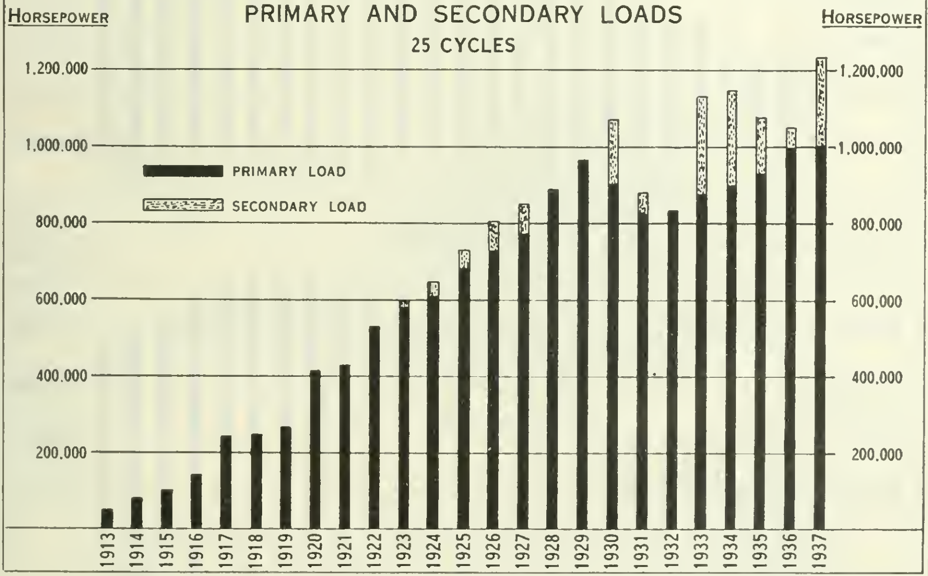
DEVELOPED AND PURCHASED POWER RESOURCES

25 CYCLES



PRIMARY AND SECONDARY LOADS

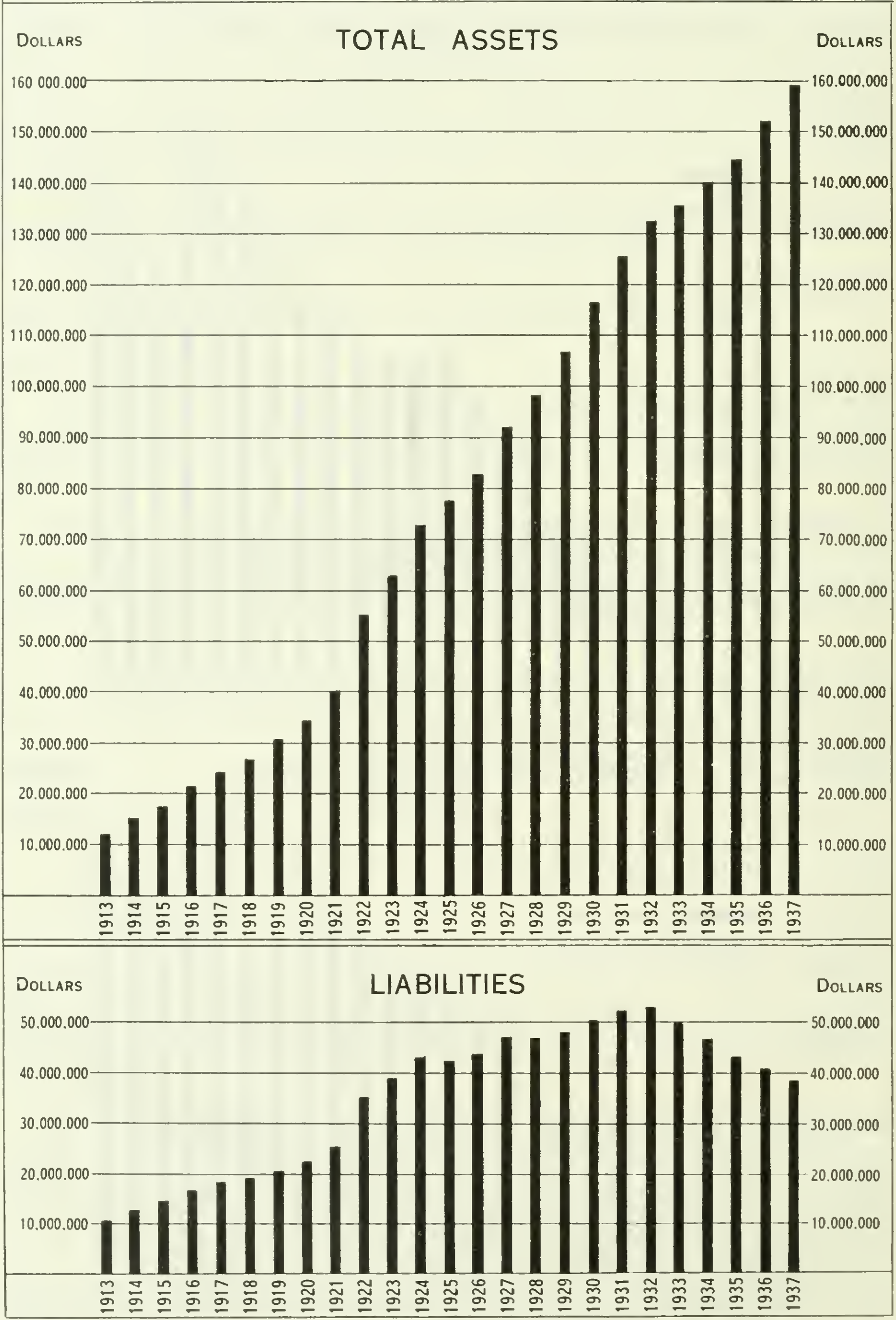
25 CYCLES

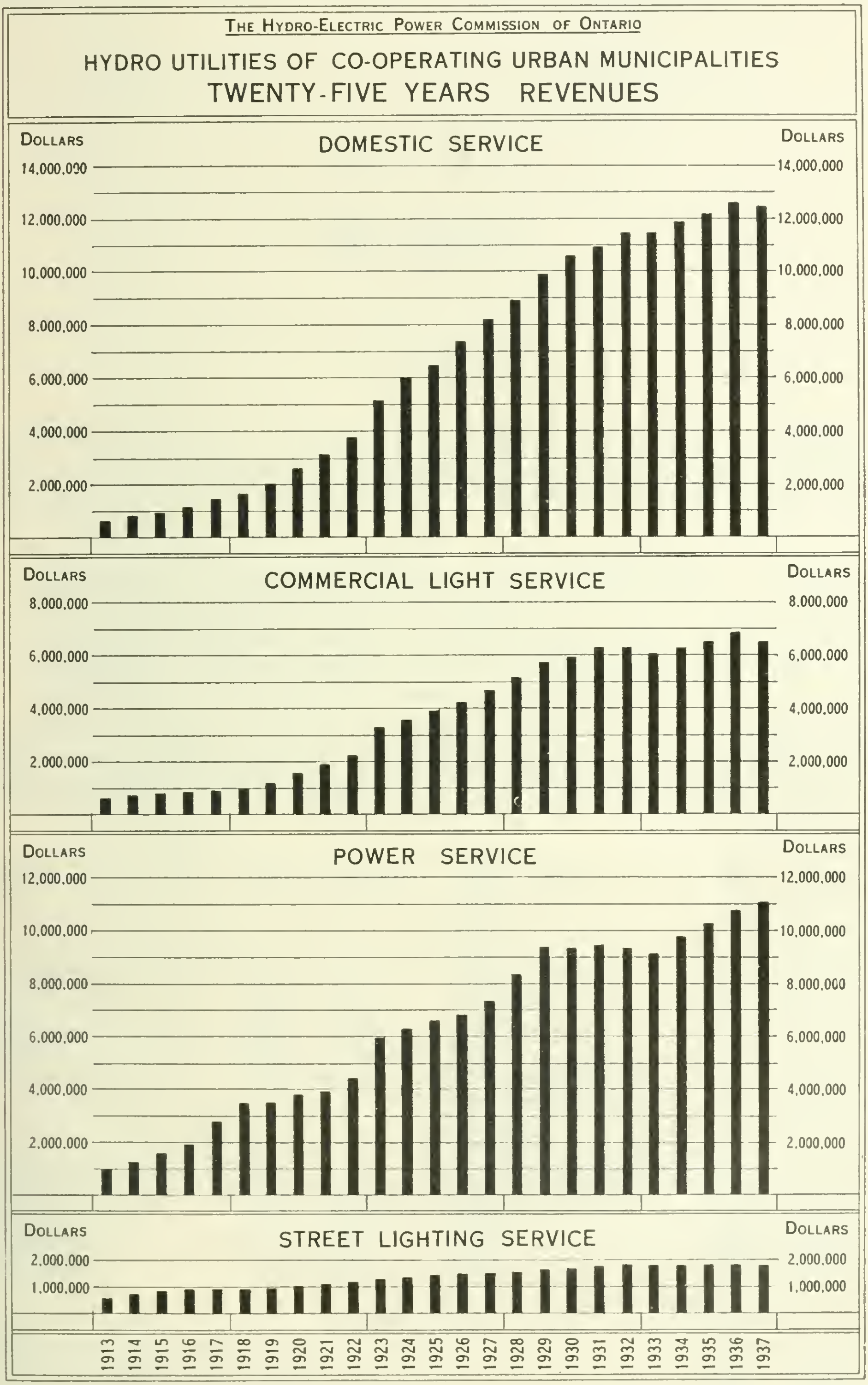


NOTE: Diagram depicts conditions for December, which correspond closely to winter peak conditions

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

HYDRO UTILITIES OF CO-OPERATING URBAN MUNICIPALITIES
TWENTY-FIVE YEARS RECORD





THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

HYDRO UTILITIES OF CO-OPERATING URBAN MUNICIPALITIES
TWENTY-FIVE YEARS REVENUES

SECTION I

LEGAL

AT the 1937 Session of the Legislative Assembly of the Province of Ontario six Acts respecting The Hydro-Electric Power Commission of Ontario were passed. They are reproduced in full in Appendix I of this Report. The short titles of the said Acts are as follows:

The Power Commission Declaratory Act, 1937, Chapter 58.
The Power Commission Amendment Act, 1937, Chapter 59.
The Power Commission Act, 1937, Chapter 60.
The Power Contracts Validation Act, 1937, Chapter 61.
The Shallow Lake and Tiverton Rural Power Act, 1937, Chapter 71.
The Village of Vienna Rural Power Act, 1937, Chapter 80.

The agreements between The Hydro-Electric Power Commission of Ontario and municipalities and corporations mentioned in the list hereunder given were approved by Order-in-Council, dated the 6th day of January, 1938.

Cities

Windsor	May 26, 1936

Villages

Forest Hill	Feb. 24, 1937
Shallow Lake	Aug. 4, 1937
Swansea	Mar. 9, 1937
Tiverton	Sept. 7, 1937
Vienna	Aug. 30, 1937

Townships

Arthur	June 4, 1937
Bayham	Sept. 7, 1937
Beckwith	Oct. 2, 1937
Carden	April 20, 1937
Collingwood	Aug. 7, 1937
Cornwall	April 5, 1937
Crosby North	Dec. 15, 1936
Eldon	April 28, 1937
Kingston	Feb. 10, 1937
Lutterworth	May 10, 1937
McLean	July 24, 1937
McMurrich	Sept. 25, 1937
McNab	Feb. 1, 1937
Mono	Nov. 6, 1936
North Monaghan	Dec. 15, 1936
Palmerston and Canonto	Oct. 12, 1937
Pickering	Oct. 4, 1937
Portland	April 5, 1937
Rear of Leeds & Lansdowne	Dec. 22, 1936
Smith	Dec. 19, 1936
Snowden	Jan. 29, 1937
Stafford	May 29, 1937
Wilmot	July 19, 1937

Corporations

Bankfield Consolidated Mines, Ltd.	Jan. 2, 1937
Canadian Industrial Alcohol Company, Limited	Nov. 1, 1936
The Grand River Railway Company	Nov. 2, 1936

Corporations—*Continued*

Hard Rock Gold Mines, Limited	Nov.	21, 1936
Jellicoe Consolidated Gold Mines, Limited	Mar.	12, 1937
The Lake Erie and Northern Railway Company	Nov.	2, 1936
Leitch Gold Mines, Limited	April	9, 1937
The Long Point Park Commission	June	9, 1937
Little Long Lac Gold Mines, Limited	Jan.	20, 1937
MacLeod-Cockshutt Gold Mines, Limited	July	23, 1937
Maple Leaf Milling Company, Limited (Port Colborne)	Sept.	1, 1935
Maple Leaf Milling Company, Limited (Welland)	Sept.	1, 1935
Northern Empire Mines Company, Limited	Dec.	16, 1936
Sand River Gold Mining Company, Limited	May	13, 1937
Strathcona Paper Company, Limited	Nov.	1, 1936
Tombill Gold Mines, Limited	Aug.	9, 1937

RIGHT-OF-WAY AND PROPERTY

The Commission as trustee for the co-operating municipalities of the several systems, and as trustee for the Provincial Government in Northern Ontario has vested in it, or controls through ownership of subsidiary companies, a large amount of real estate throughout the Province. This real estate comprises power sites, storage basins, land held to avoid consequential damages, right-of-way and lands occupied by generating stations, transformer and distributing stations, and administration buildings. In respect to the 6,000 miles of high-voltage transmission lines, and the 12,000 miles of distribution lines in rural power districts, the Commission's rights vary widely and include rights derived from direct ownership of right-of-way, rights held through easements, and leases of occupation with the privilege to overhang or tree trim thereon.

The Commission, where vested in the fee, endeavours to obtain from the lands under its jurisdiction the maximum revenue consistent with its own beneficial use. Lands which have come into the Commission's possession, and which are not immediately required for its purposes are, where possible, leased until the need arises for their use, and an endeavour is made to dispose of all lands not required.

The acquirement and administration of land owned, leased or controlled involves surveys, investigation of title, registrations, record, assessment and taxes.

In connection with the transmission and distribution networks throughout the Province, it is frequently necessary to obtain the approval of such controlling bodies as the Board of Railway Commissioners for Canada, Ontario Municipal Board, Department of Transport, Department of Public Works, Department of Indian Affairs, Department of Crown Lands, or other corporate body having jurisdiction over the lands involved.

The Year's Operations

During the past year a further endeavour to reduce the excess lands of the Commission was made and a number of miscellaneous properties were sold.

A further systematic check of land owned or acquired was undertaken with a view to disposing of other surplus lands and, consistent with use in connection with the works of the Commission, to procure more revenue from properties held.

Maintenance

A large number of dwellings and farm buildings owned by the Commission were rehabilitated and repaired in accordance with standards maintained. This resulted in an increase in revenue therefrom.

The construction of several transmission lines of major importance, a record year's expansion in rural distribution, and construction of important hydraulic works, involved an unusual amount of property negotiation, by purchase, lease or easement. Easements totalling 1,821 in number were secured, together with 483 crossing agreements and leases and 761 tree-trimming rights; of this number 766 easements have been registered and 316 tree-trimming agreements recorded. In the many properties affected, only seven owners referred the amount tendered in settlement to the Valuator appointed under the Power Commission Act.

Station Sites

Sites were purchased for transformer stations at Hamilton (Gage) and Fergusonvale, also for extensions to the London and St. Marys transformer stations. For the Northern Ontario Properties sites were purchased for transformer stations at Little Long Lac and Kirkland Lake and leased for one at Timmins.

Distributing station sites were purchased for extensions to Albion Park and Lyn, and for new stations at Beardmore, Geraldton, King Kirkland, and York Mills.

Rural station sites were purchased in Ingersoll, Cataraqui, and Picton.

Operator's dwelling sites were purchased at Empire, Jellicoe and McKirdy.

Purchase and Sales

Sale of properties formerly owned by the Toronto Suburban Railway and Metropolitan Railway was continued. Nearly all properties have now been sold; the right of the Commission to erect and maintain transmission lines thereon having been retained.

The sale of the right-of-way extending from Port Hope to Oshawa was also completed, subject to the retention of similar rights.

The former Brantford and Hamilton Electric Railway right-of-way extending from Hamilton to Ancaster was sold to the Department of Highways, Province of Ontario.

Settlements of a number of claims relating to property abutting Chats lake were made.

Several properties immediately affected by the works of the Ragged Rapids development were acquired, and damage claims in connection with this development were settled.

A large number of easements and rights were acquired in connection with the rapidly expanding electrical systems of Northern Ontario.

Surveys

A large number of field surveys were made, and monuments placed, the more important being in connection with the following:

Addition to transformer station site at London, transformer station sites of Stratford, St. Marys, York Mills and Dundas.

Distributing station sites at Newmarket, Ingersoll, Lyn, Geraldton and Beardmore.

Generating station sites at Ragged Rapids, Coniston, McVittie and Stinson.

Rural station sites at Picton and Cataraqui, and patrolmen's dwelling sites at Empire, McKirdy and Jellicoe.

Right-of-way from Cooksville to Georgetown and from Port Hope to Oshawa, to define limits over which the Commission retained rights after sale of property.

The transmission line serving Honey Harbour and a large number of crossings of navigable water, to meet the requirements of the Department of Transport.

To establish the limits of a large number of Niagara lands for fencing.

The crossing of the Trent Canal at Nassau.

On lands described in the deeds from the Quinte and Trent Valley Power Company at Frankford, Ranney Falls, and in the townships of Rawdon and Marmora.

Records

The following is a brief statistical summary of the records made:

	Number
1. Current deeds including plans copied and recorded	154
2. Plans and descriptions prepared for deeds of land and easements for transmission lines and all other developments	
(a) Purchase and sale of land	160
(b) Easements and leases	169
3. Indexing of the following was completed:	
(a) Deeds	155
(b) Tree trimming rights	316
(c) Transmission line easements	766

Taxes

A number of municipalities, in which are situated properties owned by the Commission, subject to taxation, were furnished with plans and details in connection therewith.

Lines in Rural Power Districts

Where possible, rural power lines are constructed on public highways or roads. In a few cases to avoid cutting trees, or owing to special local conditions, lines have been placed on private property. Frequently highway construction and improvement made it necessary to relocate existing lines.

Extensions to lines in rural power districts involved the acquisition of easements and tree trimming rights, in the Niagara, Georgian Bay, Eastern Ontario and Thunder Bay systems, and in the Nipissing district of the Northern Ontario Properties.

High- and Low-Voltage Transmission Lines

Right-of-way easements, leases, tree trimming, and crossing rights were negotiated for the various systems, among the more important were on lines,

In the **Niagara system,** Preston transformer station to Galt, Brant transformer station to Brantford, Thorold transformer station to St. Catharines' switching station, Gibson junction to Thorold transformer station, William street junction, Newmarket, to Sharon distributing station, Norwich junction to Tillsonburg, Drumquin to Hornby distributing station, Clark Street junction to Merritton, and Garden City junction to Garden City Pulp and Paper Company,

In the **Georgian Bay system,** Matchedash junction to Fergusonvale auto-transformer station, and Georgian Bay to Toronto telephone tie line,

In the **Eastern Ontario system,** Chats Falls to Trenton transformer station, Lakefield generating station to Auburn switching station, and Auburn switching station to Cavan junction,

In the **Thunder Bay system,** Cameron Falls generating station to Long Lac transformer station, Red Rock junction to Lake Sulphite Pulp station, Nezah junction to Sturgeon River Gold Mines, Tombill Gold Mines, and to Bankfield Consolidated Gold Mines,

In the **Northern Ontario Properties,** Crystal Falls generating station to Coniston station in the Sudbury district; Larder Lake transformer station to Kir-Vit Gold Mines, Larder Lake transformer station to Kerr Addison Gold Mines, and Tisdale junction to Pamour transformer station in the Abitibi district.

SECTION II

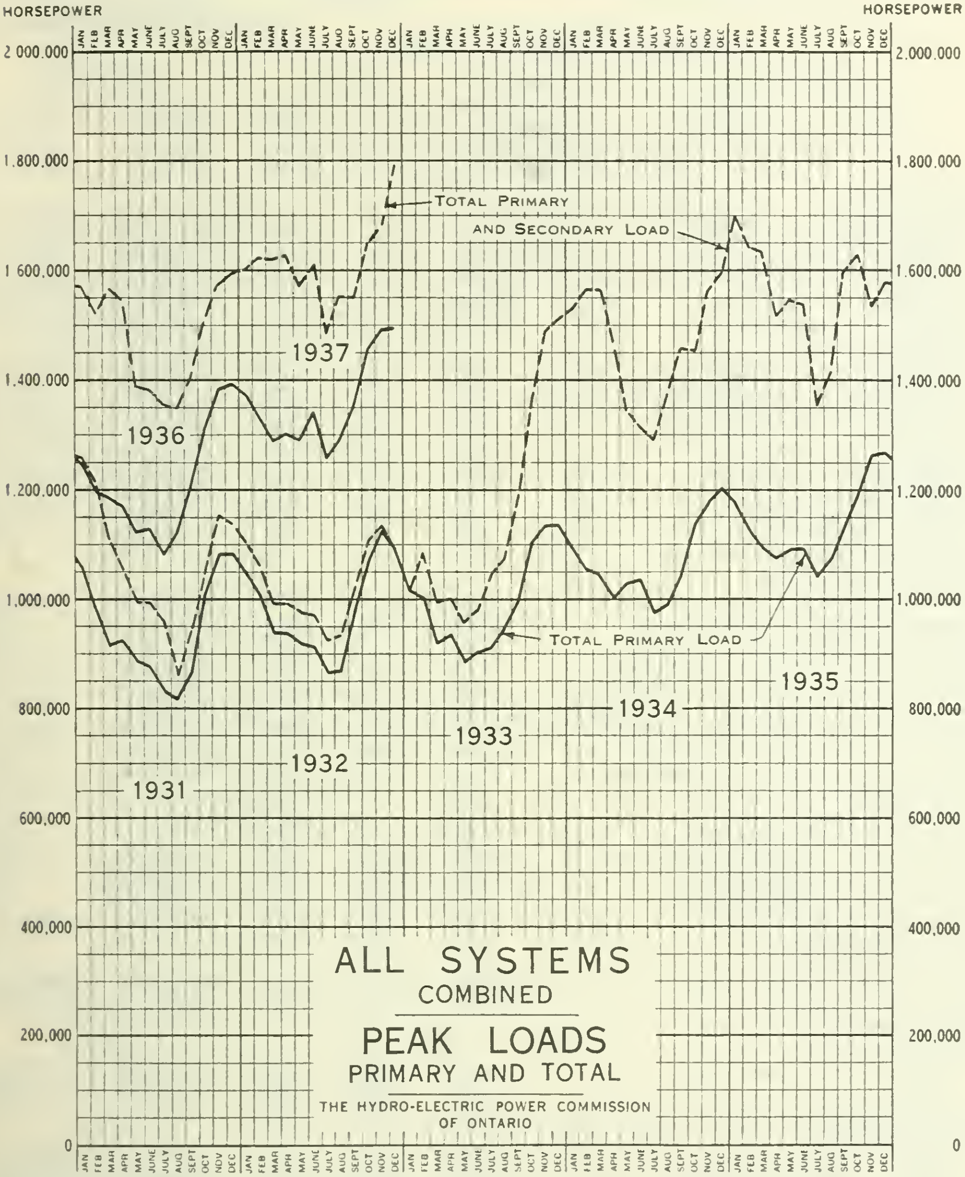
OPERATION OF THE SYSTEMS

OPERATING conditions were unusually favorable throughout the year. Lightning, sleet and gales, the chief enemies of electric power transmission, caused relatively little damage and interference with service was limited both in duration and in the areas affected. In the ordinary course of operation lightning and failures of insulation occur frequently, and the electrical surges which these set up impose severe electrical and mechanical stresses on neighbouring equipment and even on equipment many miles distant. During the past year the amount of damage sustained in this way has been slight, as indicated by the details given later in this section of the Report.

While satisfactory service and freedom from extensive damage to equipment may be partly attributed to favourable conditions during the year, a large part of the credit is due to the systematic inspection and maintenance work carried out on all lines and on station equipment. The continuous testing and the removal of defective insulators, bushings, contacts, coils and other parts of apparatus found defective, has done much to prevent serious failures developing. Relays of modern design, giving improved automatic operation of switches when trouble develops, have also aided in confining disturbances to limited areas.

Failures of equipment and the repairs made are outlined in this section of the Report under the respective systems and plants. Such information is given as a report of the year's work, and as an indication of the efficient condition in which equipment has been maintained. Routine inspection and preventive maintenance can only be described in a general way. The thoroughness with which this work has been performed is evidenced by the excellent service which has been given to customers generally. With the growing dependence of factories and homes upon continuous electric service, the importance of this type of maintenance work is constantly increasing.

Stream flow conditions also were generally favourable during the year. The usual seasonal decline of stream flow during the late summer and fall reduced the generating capacity of the Commission's plants on the Trent river, but the supply of power to the Eastern Ontario system was maintained through the use of Gatineau power and power supplied from Chats Falls through the frequency-changer set there. The Georgian Bay system also suffered some curtailment in capacity due to the seasonal reduction in stream flow, and additional power was taken from the Niagara system through the frequency-



changer sets at Hanover and Mount Forest. While both the Eastern Ontario and Georgian Bay system generating plants suffered reduction in capacity through lack of sufficient stream flow, conditions were more favourable in this respect than during the previous year. In the Nipissing district the stream flow was barely sufficient to carry the increased load. On the other systems the generating plants are not subject to as much curtailment in capacity through lack of stream flow, and water conditions generally were satisfactory. Some slight trouble was experienced in the Niagara river on March 2 and 3, 1937, due to ice jams which reduced the capacity of the Ontario Power plant by 10,000 horsepower, and Queenston plant by 25,000 horsepower. This condition, however, was of short duration.

TOTAL POWER GENERATED

HYDRO-ELECTRIC GENERATING PLANTS

Generating plants	Maximum normal plant capacity Oct. 31, 1937 horsepower	Peak load during fiscal year		Total output during fiscal year	
		1935-36 horsepower	1936-37 horsepower	1935-36 kilowatt-hours	1936-37 kilowatt-hours
Niagara system					
Queenston-Chippawa—Niagara river	500,000	520,107	500,000	2,636,296,000	2,696,986,000
"Ontario Power"—Niagara river	180,000	176,273	177,614	798,141,000	806,435,000
"Toronto Power"—Niagara river	150,000	145,442	145,442	239,906,000	234,310,000
Chats Falls (Ontario half)—Ottawa river	108,000	116,622	117,962	391,033,500	405,905,450
DeCew Falls—Welland canal	50,000	45,845	47,319	118,363,500	131,426,000
Steam Plant—Hamilton	24,000	....	10,724	—3,429,600	—2,639,400
Georgian Bay system					
South Falls—South Muskoka river	5,600	5,764	5,563	24,818,640	22,916,040
Hanna Chute—South Muskoka river	1,600	1,743	1,743	7,708,800	7,082,400
Trethewey Falls—South Muskoka river	2,300	2,145	2,145	10,915,200	10,548,000
Bala No. 1 and 2—Muskoka river	600	597	590	2,456,776	3,110,920
Big Chute—Severn river	5,800	5,657	5,791	18,686,400	23,573,040
Wasdells Falls—Severn river	1,200	1,206	1,092	3,338,420	4,517,400
Eugenia Falls—Beaver river	7,800	7,641	7,466	13,133,800	14,782,000
Hanover—Saugeen river	400	435	422	548,304	450,720
Walkerton—Saugeen river	500	489	483	1,955,200	2,116,200
Southampton—Saugeen river	300	0	0	0	0
Eastern Ontario system					
Sidney—Dam No. 2—Trent river	4,500	4,960	5,228	19,205,100	19,996,500
Frankford—Dam No. 5—Trent river	3,500	3,820	3,887	15,724,850	15,896,450
Sills Island—Dam No. 6—Trent river	2,100	....	2,145	....	452,000
Meyersburg—Dam No. 8—Trent river	7,000	8,043	8,150	34,628,590	37,292,910
Hague's Reach—Dam No. 9—Trent river	4,500	4,960	4,826	20,543,260	23,177,190
Ranney Falls—Dam No. 10—Trent river	10,500	11,528	10,992	49,349,880	48,558,300
Seymour—Dam No. 11—Trent river	4,200	4,558	4,290	17,628,480	20,025,600
Heely Falls—Dam No. 14—Trent river	15,300	16,086	16,086	55,215,580	59,560,740
Auburn—Dam No. 18—Otonabee river	2,400	2,547	2,654	10,792,840	11,092,920
Douro—Lock No. 24—Otonabee river	900	....	1,072	....	1,017,000
Lakefield—Otonabee river	2,300	....	2,413	....	8,622,910
Young's Point—Otonabee river	500	....	576	....	416,950
Fenelon Falls—Dam 30—Sturgeon river	1,000	1,046	938	2,598,850	2,506,550
High Falls—Mississippi river	3,000	3,251	3,204	10,910,520	12,526,320
Carleton Place—Mississippi river	400	536	389	336,488	11,864
Calabogie—Madawaska river	5,400	5,496	6,099	18,659,370	20,572,830
Galetta—Mississippi river	1,100	1,193	1,233	736,054	2,640,000
Thunder Bay system					
Cameron Falls—Nipigon river	73,500	75,067	79,088	348,615,000	404,303,000
Alexander—Nipigon river	50,000	52,413	53,217	258,036,000	307,305,600
Northern Ontario properties					
Nipissing district					
Nipissing—South river	2,100	2,198	2,252	6,770,000	7,329,880
Bingham Chute—South river	1,200	1,330	1,330	3,597,440	3,636,480
Elliott Chute—South river	1,700	1,964	1,930	3,036,400	3,276,000
Sudbury district					
Coniston—Wanapitei river	5,900	5,764	5,764	25,800,864	25,193,990
McVittie—Wanapitei river	3,100	3,217	3,217	14,074,752	19,289,346
Stinson—Wanapitei river	7,500	7,239	7,641	21,686,304	24,768,404
Crystal Falls—Sturgeon river	†	....	2,413	....	151,800
Patricia district					
Ear Falls—English river	9,000	4,182	5,013	19,060,600	22,504,740
Abitibi district					
Abitibi Canyon—Abitibi river	180,000	146,783	161,796	604,215,880	761,051,900
St. Joseph district					
Rat Rapids—Albany river	3,000	1,702	2,969	7,287,720	12,360,060
Total generated	1,443,700	*	*	5,832,382,762	6,237,058,004

*Because the peak loads on the various generating plants and purchased power sources usually occur at different times, the sum of the individual peak loads would not represent the sum of the peak loads on the systems. These, in the case of each system, must relate to the maximum load occurring at any one time. Consequently, the column headed "Peak load" is not totalled.

†Crystal Falls plant was acquired in August, 1937, but capacity not regarded as available up to October 31, 1937, due to rehabilitation of the plant.

AND PURCHASED—ALL SYSTEMS

POWER PURCHASED

Power source	Contract amount horsepower Oct. 31, 1937	Total purchased	
		1935-36 kilowatt-hours	1936-37 kilowatt-hours
Canadian Niagara Power Co.	20,000	108,304,000	124,114,800
Gatineau Power Co.—25-cycle	140,000	644,862,800	629,556,200
Ottawa Valley Power Co.	108,000	0	284,699,350
MacLaren-Quebec Power Co.	40,000	146,177,000	183,301,000
Welland Ship Canal*	....	0	71,000
Campbellford Water & Light Commission	800	562,300	952,800
Fenelon Falls Light, Heat & Power Commission*	....	9,600	6,800
M. F. Beach Estate	500	1,338,800	1,446,400
Rideau Power Co.	487	2,903,000	3,051,600
Ottawa & Hull Power & Mfg. Co.	20,000	62,256,600	63,352,800
Gatineau Power Co.—60-cycle	42,000	189,310,000	190,355,500
Orillia Water, Light & Power Commission†	....	2,427,970	197,200
Manitoulin Pulp Co.	150	280,200	333,600
Abitibi Power & Paper Co.	538	3,141,781	972,722
Kaministiquia Power Co.‡	....	2,621,640	31,104,480
Total purchased	372,475	1,164,195,691	1,513,516,252

Power purchased, contract amount, 1937	372,475	horsepower
Maximum normal plant capacity, 1937	1,443,700	"
Total available capacity generated and purchased, 1937	1,816,175	"
Total available capacity generated and purchased, 1936	1,648,037	"
Difference (increase)	168,138	"
Total energy purchased, 1937	1,513,516,252	kilowatt-hours
Total energy generated, 1937	6,237,058,004	" "
Total energy generated and purchased, 1937	7,750,574,256	" "
Total energy generated and purchased, 1936	6,996,578,453	" "
Difference (increase)	753,995,803	" "

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*Emergency use.

†Reciprocal arrangement for surplus power.

‡Purchased on kilowatt-hour basis.

CAUTION: The figures for "Maximum normal plant capacity" reflect the capacity of the various plants under the most favourable operating conditions which can reasonably be considered as normal, taking into consideration turbine capacity as well as generator capacity, and also the net operating head and available water supply.

Owing, among other things, to changes in generating equipment due to wear and tear or the replacement of parts, also to changes in limitations governing water levels and effective net heads, the maximum normal plant capacity is not a fixed quantity but is one which must be revised from time to time.

It is particularly important to bear in mind that the column headed "Maximum normal plant capacity" cannot be taken as an indication of the dependable capacity of the various plants: in some cases, it is, but in many cases it is not. Chief among the factors which govern the maximum dependable capacity of a hydraulic power plant and which are not reflected in column headed "Maximum normal plant capacity" are abnormal variations in water supply and operating limitations encountered when plants are so situated on a given stream as to be affected by one another.

Load Conditions

The following summary of load conditions distinguishes between primary load supplied for general purposes and secondary load which is supplied only as and when available.

The primary load on all systems, that is the sum of the system peak loads, increased 151,000 horsepower over the previous year's peak, an increase of 11.4 per cent. The Commission's primary peak load during the year amounted to 1,468,266 horsepower, which is the highest primary load ever carried on the combined systems.

The increase in the average primary load was even greater than the increase in peak load, amounting to 13.3 per cent. This gain was not uniform on all systems. In southern Ontario, the combined Niagara, Eastern Ontario and Georgian Bay systems showed a gain of 9.9 per cent. The gains in the northern part of the province were greater, the Thunder Bay system showing an increase of 27.1 per cent, and the Northern Ontario districts an increase of 38.8 per cent.

The total load of all systems, including primary and secondary power, amounted to 7,750,574,256 kilowatt-hours, and is the largest total load attained during any fiscal year, being 10.8 per cent in excess of last year's load. The total peak load was 1,694,406 horsepower, an increase of 4.7 per cent over the previous load. It will be noted that the increase in the total peak load is much less than the increase in the primary peak load.

Details regarding the load on each system, month by month, are given in the load graphs included in this section of the Report. These graphs show that, allowing for the usual seasonal variations, there has been a steady upward trend in the load on all systems since 1933, and this upward trend still continued at the end of the fiscal year.

FORESTRY DIVISION

The Forestry division continued its regular transmission line clearing operations to protect the Commission's lines, equipment and service from tree interference. Reforestation was continued on non-revenue producing lands in the Niagara, Georgian Bay and Eastern Ontario systems, and some work was carried out on generating and transformer station grounds for the preservation of trees and shrubs.

At the beginning of the year the duties of the Forestry division were extended to include line clearing operations for all rural lines located on or along the King's highways. According to information obtained by actual survey, this work involves treatment of 96,000 trees spread over 1,576 miles of existing rural lines, to which may be added the trees along new line construction projects.

A further description of the work performed, together with details pertaining to cost, will be found in the succeeding paragraphs.

Transmission Line Clearing Operations

The year's operations involved treatment of 57,370 trees and 70 pole spans of underbrush spread over 2,548 miles of power transmission and telephone line. The cost, including all expenditures for labour, material, expense and forestry overhead applicable to this work is shown in the table below:—

TRANSMISSION LINE CLEARING OPERATIONS

Description of work	Miles of line cleared	Volume of work performed	Total cost	Average cost
			$	$ c.
Underbrushing....................	......	70 pole spans	476	6.80 per span
Tree removals....................	......	2,011 trees	5,711	2.84 per tree
Line clearance, pruning and cabling..	2,548	55,359 trees	52,528	0.95 per tree

CONTRASTING VIEWS OF TYPICAL TREES FOUND ALONG THE HIGHWAYS

Beech tree destroyed by fire and fungi. Protection of human life and public property necessitates removal.

Sugar maple tree in all its grandeur. An inspiration to all who behold its beauty, health and symmetry.

Comparing this year's report on line clearing operations with that of last year shows a substantial increase in the miles of line cleared and number of trees treated, and a small decrease in the average cost per tree. The amount of underbrushing and the number of tree removals were greatly reduced.

Rural Line Clearing Operations

Initial operations for rural power districts during the year comprised the treatment of 28,609 trees and removal of 3 pole spans of underbrush to provide clearance for 599 miles of line. The cost, including all charges for labour, material, expense and forestry overhead applicable to this work is shown in the table below:—

RURAL LINE CLEARING OPERATIONS

Description of work	Miles of line cleared	Volume of work performed	Total cost	Average cost
			$	$ c.
Underbrushing	......	3 pole spans	17	5.59 per span
Tree removals	......	861 trees	2,333	2.71 per tree
Line clearance, pruning and cabling	599	27,748 trees	24,821	0.89 per tree

During the progress of the work, rural linemen were given a preliminary lecture and instructions in the approved safety rules and scientific methods of pruning trees for line clearance. This was supplemented by practical training under the supervision and direction of foresters. The training program generally extends over a period of three weeks, comprising 144 hours. A total of thirty-six rural linemen reported to the Forestry foreman for training when work was being performed in their respective districts. Seventeen of these men spent the required time to complete training, but nineteen were called away for emergency line work and have received only partial training.

RURAL LINEMEN TRAINED FOR FORESTRY WORK

System	Rural power districts	Employees trained	
		Complete	Partial
Niagara	5	10	15
Georgian Bay	1	3	4
Eastern Ontario	1	4	..

Records of costs shown in the preceding tables under transmission and rural line clearing operations include pruning to secure adequate clearance, a reasonable amount of shaping to improve the appearance and restore the natural beauty of the trees, cabling trees with structurally weak or splitting crotches, and a systematic diagnosis of all trees along the lines to discover and remove those that are diseased and a menace to life, service and property.

New Construction Line Clearing Operations

Scientific line clearing operations were performed to obtain clearance for approximately 92 miles of new transmission and rural line construction. The work involved pruning of 3,400 trees, removal of 12 spans of underbrush and 332 diseased and dangerous trees, at a total cost of $5,641, an average cost of $1.51 per tree.

Maintenance of Trees and Shrubs on Station Grounds

Various types of work were performed. Trees and shrubs were planted in accordance with landscape plans to improve the properties. Existing trees and shrubs were pruned, fertilized and sprayed to control scale and leaf-eating insects. Structurally weak trees were cabled to prevent splitting. The stations at which work was done were: Niagara, Strachan Avenue, Preston, Kitchener, Cooksville, Kent, Ontario Power, Queenston, Bridgman-Davenport, DeCew and Leaside on the Niagara system, and Cornwall on the Eastern Ontario system.

The entire cost of this work including all expenditures for labour, material, expense and forestry overhead amounted to approximately $4,516.

Reforestation

Reforestation operations during the year involved planting of approximately 114,000 coniferous and decidiuous trees on vacant property owned by the Commission, at a total cost of $2,664. Trees were planted on the banks of the Chippawa-Queenston canal and on adjacent properties in the Niagara system, on Pheasant island, and other property adjoining Eugenia generating station in the Georgian Bay system, and on an area in the vicinity of Sidney generating station at Trenton in the Eastern Ontario system. Details pertaining to cost, number of trees and species planted are given below:

TREE PLANTING ON COMMISSION PROPERTIES

Species	Queenston-Chippawa canal		Pheasant island and Eugenia		Sidney generating station	
	Trees	Cost	Trees	Cost	Trees	Cost
Spruce	1,412					
Cedar	787					
Pine	151					
Aust. Pine	10					
White Pine	48					
Larch	3					
Scotch Pine	69					
Red Maple			1,250			
Sugar Maple			2,600			
White Ash			3,500		4,500	
B. Locust			200			
B. Walnut			200			
Red Pine			16,000		28,300	
Jack Pine			10,750		15,800	
White Cedar			6,000		20,800	
Red Oak					1,500	
Totals	2,400	$1,276	40,500	$666	70,900	$722

Work for Municipal Hydro Systems

The Forestry division was employed by an increasing number of municipal Hydro systems to perform line clearing operations for the protection of their local distribution lines. There has been manifested a growing appreciation of the work performed by the Commission's Forestry division in the increased demand for the service, as shown by the larger number of municipalities served during the year.

Surveys and preliminary diagnosis of trees affecting local distribution lines owned by the Commission and municipal Hydro systems were made in

19 different municipalities. Line clearing operations were performed for Beamsville, Burford, Burlington, Comber, Hamilton, London Twp., New Toronto and Port Credit on the Niagara system; Midland on the Georgian Bay system; Arnprior, Braeside, Napanee, Oshawa, Peterboro, Picton and Renfrew on the Eastern Ontario system.

The work comprised treatment of 6,034 trees spread over approximately 88 miles of distribution line. The cost amounted to $6,104, an average cost of $1.01 per tree. Details pertaining to the expenditures and work done on each of the three systems are shown in the following table:

FORESTRY WORK FOR HYDRO MUNICIPALITIES

System	Number of municipalities	Number of trees				Cost	
		Cabled	Removed	Pruned	Total	Total	Average per tree
						$	$ c.
Niagara	10	13	7	1,251	1,258	1,521	1.21
Georgian Bay	2	1	13	606	619	437	.70
Eastern Ontario	7	9	35	4,122	4,157	4,146	1.00
Totals	19	23	55	5,979	6,034	6,140	1.01

An expression of appreciation is due the Ontario Forestry Branch and officials of the Department of Highways, also to municipal road authorities for the spirit of friendly co-operation shown during past years.

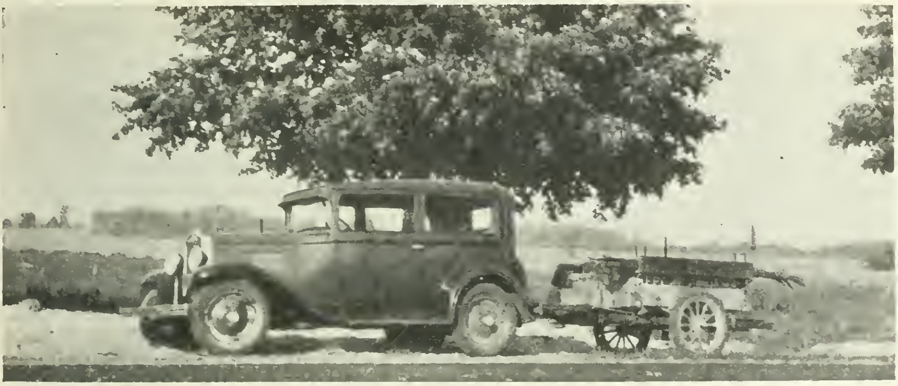
Transportation Equipment

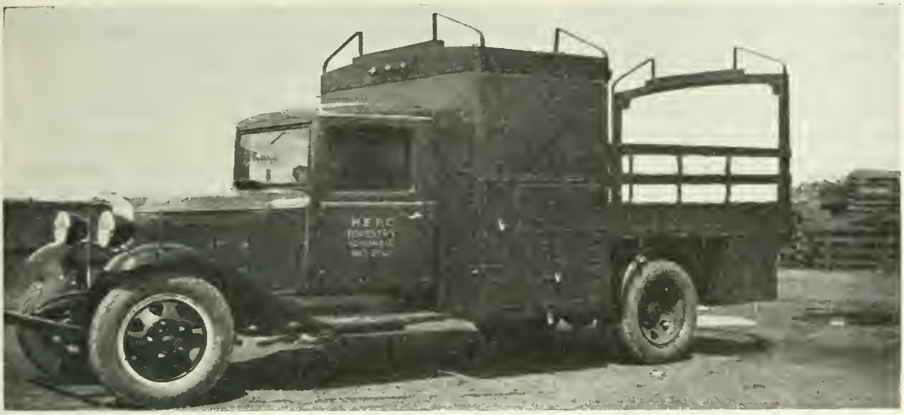
The progress of the Forestry work is exemplified by the accompanying three illustrations showing the transportation equipment utilized on line clearing operations.

During the period of organizing and training the Forestry staff, the Commission supplied trailers and other equipment at a minimum capital investment. The foresters were transported and the trailers hauled by privately owned cars, and local trucks were hired to dispose of brush.

When it was demonstrated that scientific treatment of trees for line clearance was economical and most satisfactory, trucks were purchased to reduce transportation costs. While the capital investment was increased by the purchase of trucks, operating costs were reduced by approximately fifty per cent.

The original design of trucks had many advantages over the trailers, but marked improvements have been made in those of more recent design at very little increase in capital investment and with still further reductions in the cost of operation. The new trucks conform with present-day styles, are lower in height to facilitate storage in garages, and provide the foresters with seating inside an enclosed cab to protect them against exposure to severe and inclement weather.

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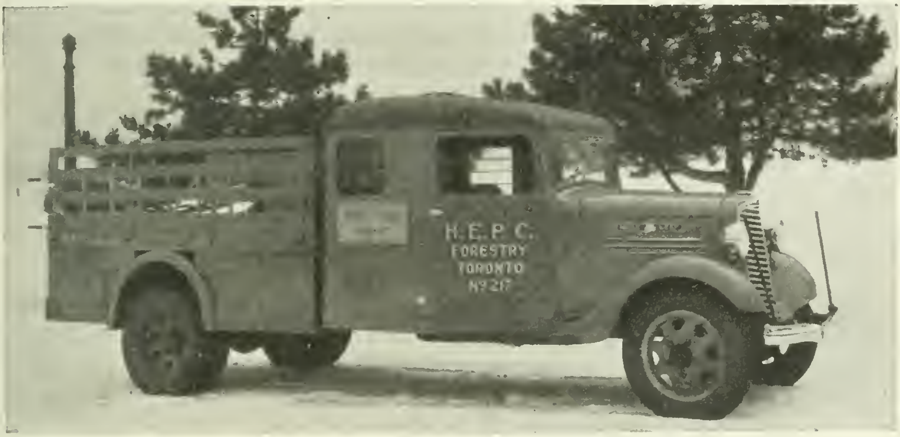
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FORESTRY
TORONTO
No 217

TRANSPORTATION OF FORESTRY WORKERS

1—Car with equipment on trailer as used up to 1931.

2—Truck equipped with specially designed body for transportation of workers and tools and disposal of brush.

3—Improved combination unit for same purposes but having a weather-proof compartment for workers in front body.

NIAGARA SYSTEM

Operation

The Commission's generating plants on the Niagara river were operated to obtain the maximum amount of energy from the water available. During the month of March, 1937, ice condition on the Niagara river resulted in almost a complete shutdown of the Canadian Niagara Power Company with the result that the Commission was requested to supply some power for the use of the Canadian customers of this company. During this period the ice jam in the lower river raised the tail race at the Ontario Power and Queenston plants so that their outputs were reduced for a period of approximately 24 hours by 10,000 and 25,000 horsepower respectively.

Full use was made of the purchased power available under the various contracts with outside companies. In order to meet increasing primary load demands, the contract demand under the Gatineau Power Company contract was increased from 100,000 to 140,000 horsepower in two increments of 20,000 horsepower each taken on November 16 and 30, 1936, respectively.

At the Chats Falls station on the Ottawa river, the Commission's four generating units were available for operation as and when required during the year. The four units of the Ottawa Valley Power Company were returned to service in February after the signing of a new power contract. Since then the output of the entire plant, subject only to stream flow conditions, has been available to the Niagara system. The 45,000-kv-a, 25-cycle to 60-cycle, frequency-changer set was available for the transfer of power between the Niagara 25-cycle system and the Eastern Ontario 60-cycle system, except three short outages for maintenance work.

The normal stream flow at Chats Falls during the early winter months was slightly in excess of plant requirements, while during the latter part of the winter the water from Quinze and Temiskaming storage reservoirs was used to augment the natural flow. The minimum river flow of approximately 18,390 c.f.s. occurred on September 10, while the maximum of approximately 172,200 c.f.s. occurred on May 8, during the spring run-off.

A new 110,000-volt, 60-cycle circuit from Chats Falls plant to the Eastern Ontario system at Trenton was placed in service on July 21 at 44,000 volts, and on October 11 voltage was raised to 110,000 volts. This provides a direct line for delivery of power from the frequency-changer set to the Eastern 60-cycle system, and 1,652,000 kw-hrs. were supplied to the Eastern system over this circuit up to the end of the fiscal year.

The steam power station at Hamilton operated as a standby reserve on the 66-2/3-cycle Dominion Power system during the year. It was called into service on 72 days to take care of peak deficiencies in the output of the DeCew Falls plant due to equipment being out of service for necessary maintenance work. The maximum peak was about 10,700 horsepower. One generator, as in the past few years, was used as a synchronous condenser for voltage regulation, floating on the Hamilton section of the system, while the other generator was available for power purposes. The boiler plant was used for the generation of steam for commercial purposes.

The 9,000-kv-a frequency-changer set at Niagara Falls, supplying power to the Dominion Power system, operated as a base load unit during the year, the power for this set being supplied from the Toronto Power generating station.

No special difficulties were experienced in the operation of the 220,000-volt transmission lines between the Ottawa river and Toronto (Leaside station). These lines deliver power from the east to the Niagara system, and during the year were operated in parallel through transformers with one section of the 110,000-volt Niagara system lines. There were no complete interruptions to service on the 220,000-volt lines, although there were a number of individual circuit outages resulting from lightning, which, however, caused no damage to the lines.

The 110,000-volt transmission circuits were operated during the year as two independent groups, one group being in parallel through transformers with the 220,000-volt circuits. There were no total interruptions to service on either group.

The 110,000-volt station at Thorold was placed in service on November 8, 1936. This station contains two 15,000-kv-a transformer banks with associated equipment. On August 8, an additional bank of three 5,000-kv-a transformers was added.

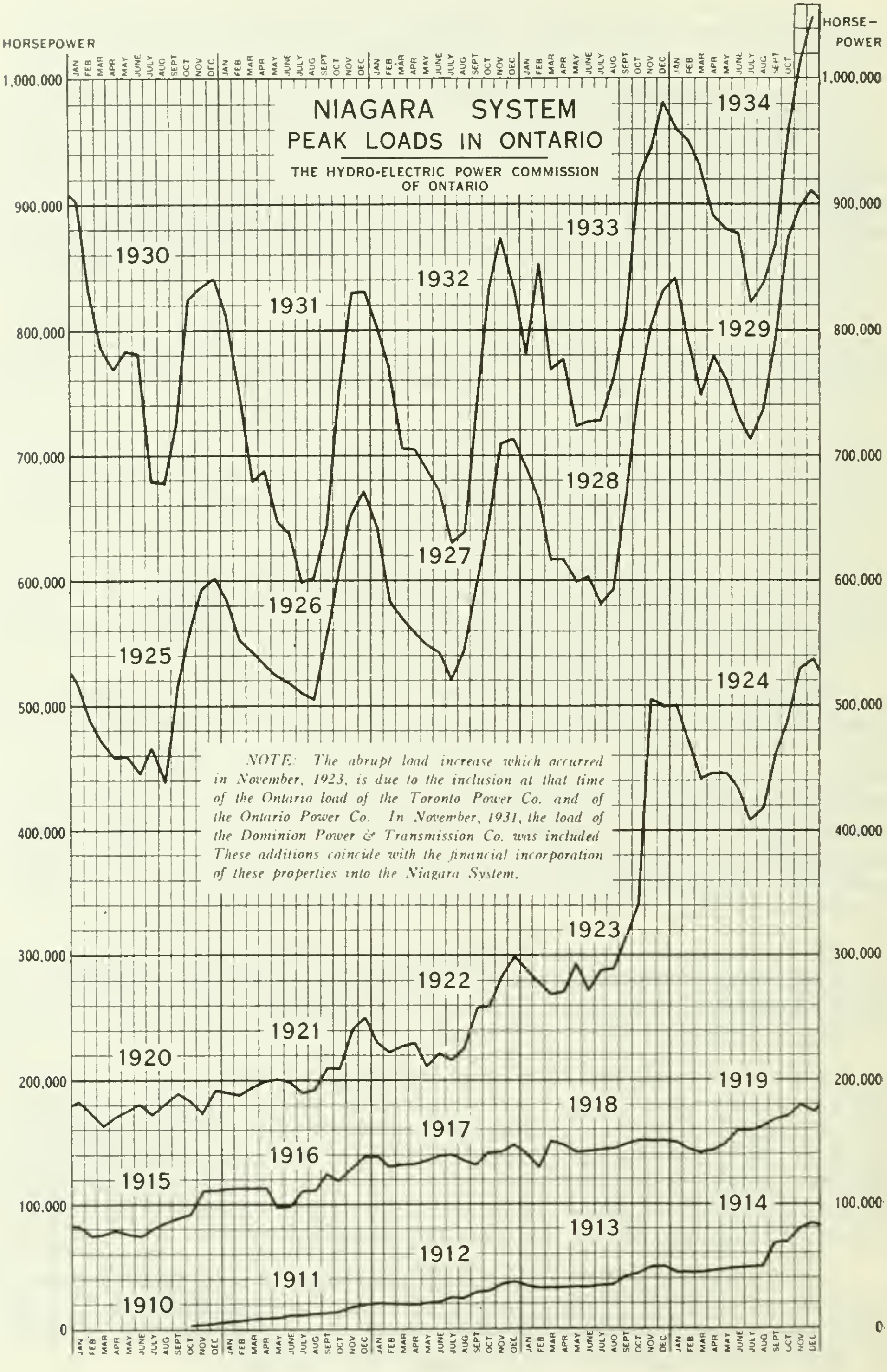
Changing Thorold from 60,000 volts to 110,000 volts released two transformer banks of 7,200-kv-a capacity, one of which was installed at Niagara transformer station, and the other is to be installed at Welland to meet increasing load demands in that district.

The transfer last year of the Welland district to 46,000 volts, along with this year's transfer of the Thorold area to 110,000 volts and changes made in the Ontario Power, Toronto Power and Niagara transformer stations, have resulted in the elimination of many miles of transmission circuits with their auxiliary equipment. These changes have been made in accordance with the Commission's policy of gradually converting the purchased Ontario Power and Toronto Power properties from individual units into a consolidated generating system for the supply of power to the Niagara system in the most economical manner.

On the Dominion Power transmission lines there were three total interruptions to the 44,000-volt circuits, totalling 27 minutes, two of which were caused by failures of station equipment during lightning storms. There were no total interruptions on the 22,000-volt system.

A new 26,000-volt line from Brant transformer station to the L. E. & N. Railway junction was placed in service during the year and 13,000-volt circuits from Norwich junction to Tillsonburg, Aylmer city limits to Aylmer, Drumquin junction to Hornby, Toronto Power transformer station to Norton Company, Thorold transformer station to St. Catharines and Clark Street junction to Merritton. A group of 26,000-volt lines, between Essex transformer station and Windsor, was transferred to the Windsor Public Utilities.

New low-tension distributing stations were placed in service at Ryckman's Corners and Hornby. Transformer capacity was increased at Sharon, Woodstock Rural, Ayr, Delaware, Rondeau, Beamsville, Dashwood, St. George, St. Williams and Lucan to meet increasing load demands.

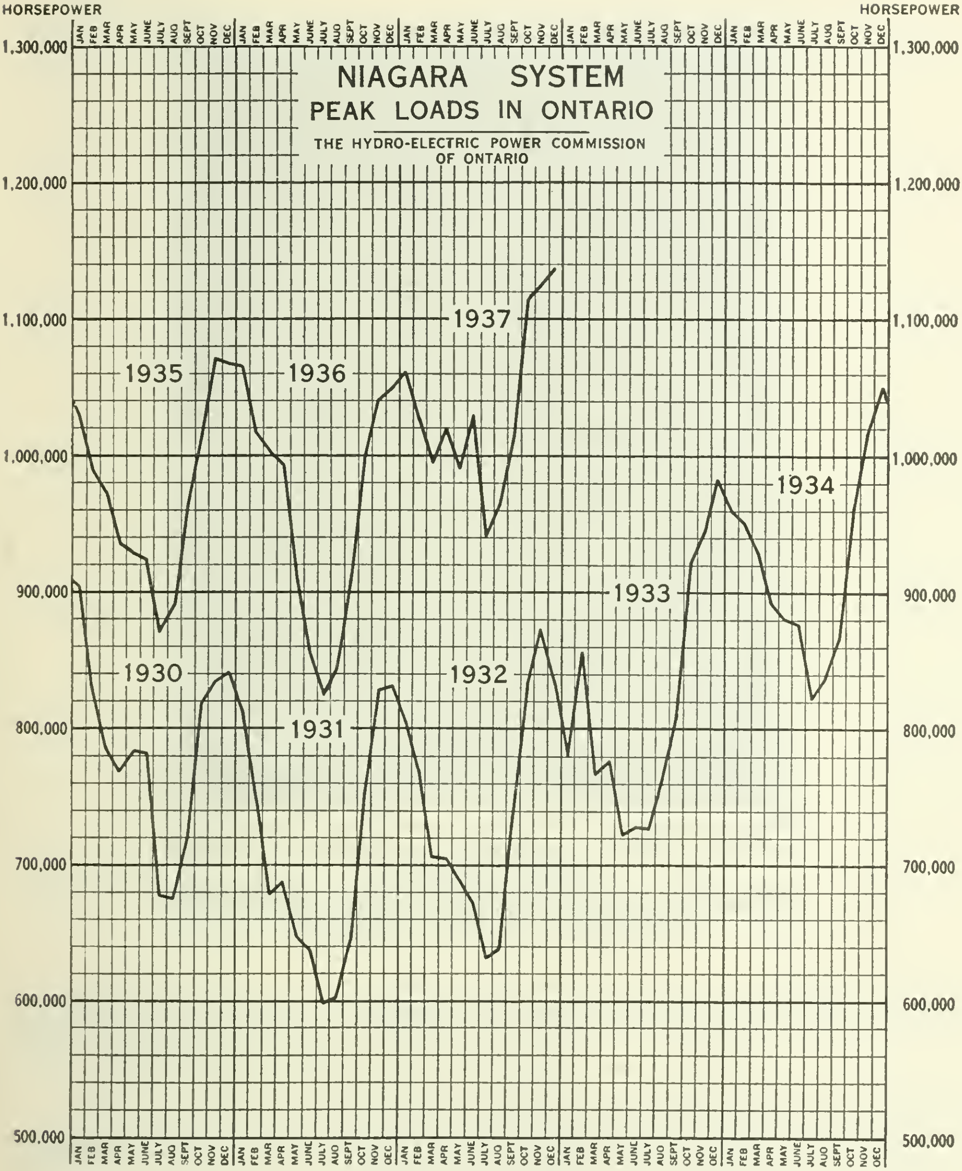


NIAGARA SYSTEM

PEAK LOADS IN ONTARIO

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

NOTE: The abrupt load increase which occurred in November, 1923, is due to the inclusion at that time of the Ontario load of the Toronto Power Co. and of the Ontario Power Co. In November, 1931, the load of the Dominion Power & Transmission Co. was included. These additions coincide with the financial incorporation of these properties into the Niagara System.



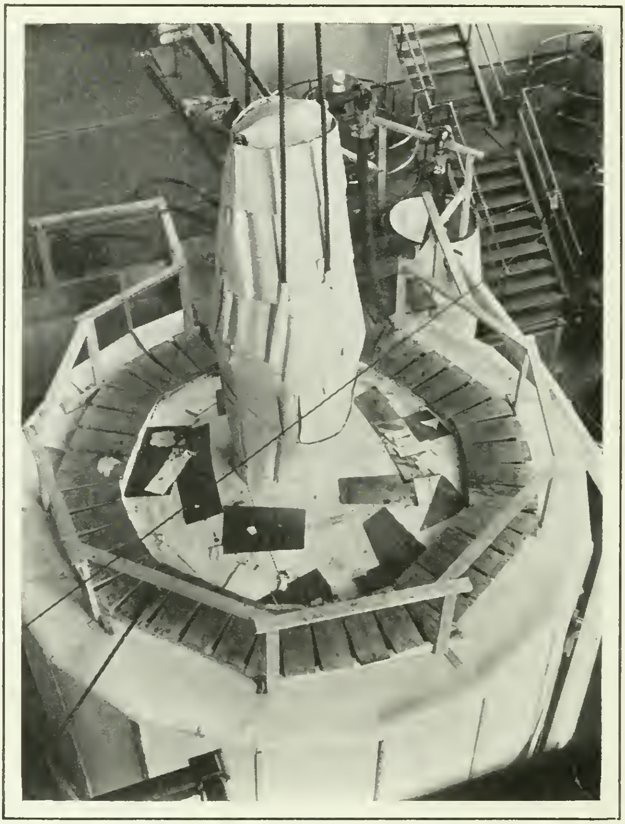
NOTE: This diagram is a continuation of that on facing page

Maintenance

Queenston Station

All equipment was available for service as and when required, with the exception of number 10 unit which was out of service from February 3 to August 22, due to a shaft failure at the thrust collar.

Generators and turbines were removed from service during the summer months for inspection and necessary maintenance work, as follows:



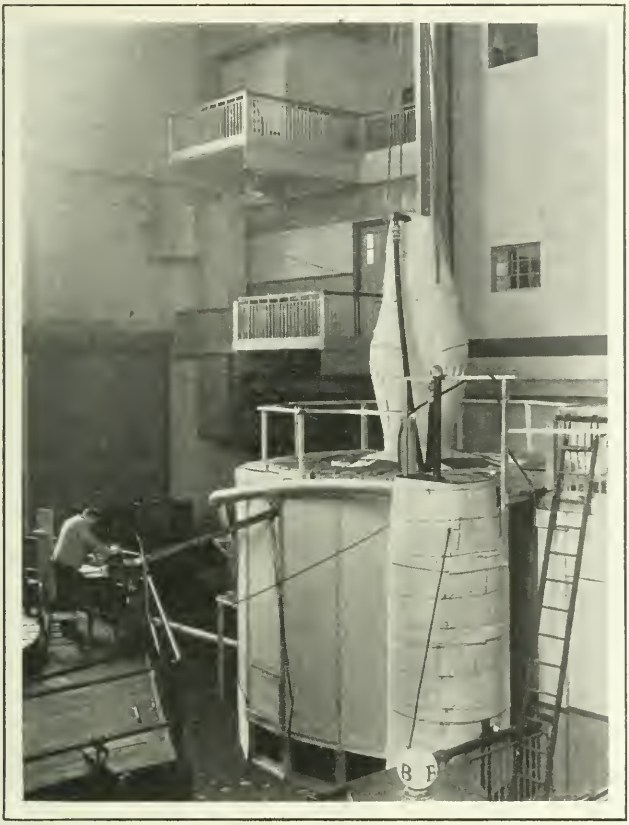
REMOVAL OF SHAFT FROM ROTOR OF No. 10 UNIT IN QUEENSTON GENERATING STATION

Looking down on top of housing. The shaft (30 ft. 3 in. long by 32¼ in. diameter) when separated was lowered into hoisting hatchway, moved to one side and raised again to erection room

Number 1 unit from May 17 to June 1,
" 2 " " June 17 to July 8,
" 3 " " July 8 to July 22,
" 4 " " July 22 to August 13,
" 5 " " Sept. 20 to Oct. 27,
" 6 " " August 23 to Sept. 3,
" 7 " " Sept. 7 to Sept. 19,
" 8 " " June 1 to June 17,
" 9 " " May 3 to May 16,
" 10 " " Feb. 3 (date of shaft failure) to August 22,

Service Unit "A" from April 28 to July 2.

All the above-mentioned machines and their allied equipment, with the exception of units 5, 10 and "A" service, were given a complete check-up *in situ* and all necessary repairs and adjustments made for a further year's operation. This work included inspection of draft tube, turbine runner and runner seals, gates and gate stem packing, minor repairs by welding, renewal of lignum vitae blocking in turbine guide bearings and refitting of shaft journals



REMOVAL OF SHAFT FROM ROTOR OF No. 10 UNIT IN QUEENSTON GENERATING STATION

View shows rotor and shaft (combined weight 307 tons) supported on steel cradle over hoisting hatchway and enclosed in heat insulating housing. The tank in foreground contained alcohol and carbon ice refrigerant. Instrument bench at left. (See text for description.)

if necessary, dismantling of Johnson valve controls and replacement of parts where required; inspection of brake rings, brakes, oil piping and cleaning of all ducts and generator fan.

The generator and exciters were cleaned, field coils were checked, armature coils were inspected and all loose wedges, bracing and cording were tightened.

Along with the foregoing work on the main units, all auxiliary equipment, including transformers, reactors, regulators, oil circuit-breakers, busses, controllers, meters, relays and wiring were carefully checked and repairs or replacements made where necessary.

Number 5 unit was completely dismantled to permit the installation of a new stainless steel erecting ring in the top of the upper draft tube section of the turbine, replacing a brass ring which disappeared during the winter. Sixty gates and gate stem bushings were replaced due to wear, and a new set of improved type gate links was installed. During this period all parts and allied equipment were inspected, repairs and replacements being made where necessary.

The complete dismantling of number 10 unit was necessitated by the failure of the generator shaft, due to fatigue in the steel, immediately above the circular key holding the thrust bearing. Investigation of an increased eccentricity in the rotation of the exciter armature, which was located immediately above the fracture, led to the discovery of this condition. The total dead weight of the rotating parts carried by the thrust bearing is approximately 350 tons.

To carry out the repairs it was necessary to remove the shaft, weighing approximately 39 tons, from the rotor, in order to permit machining and fitting of a new key and thrust collar. To dismantle the generator rotor would have been a long and expensive operation and this was avoided by an engineering feat which, considering the weight and bulk of the metal parts involved, was somewhat unusual.

The field spider and shaft having been assembled originally with a shrink or press fit it was estimated that a temperature difference of about 55 degrees Centigrade (131 degrees Fahrenheit) between shaft and field spider would be required to produce sufficient shrinkage to release the shaft. To accomplish this the temperature of the entire rotor was raised slowly over a period of five days to a temperature of 84 degrees Centigrade on the laminated ring, 50 degrees Centigrade on the hub and 28 degrees Centigrade on the shaft, the latter being cooled by cold water circulating through the eight-inch bore. This produced a temperature difference of 22 degrees Centigrade which was not sufficient. The water was replaced by alcohol cooled to 75 degrees below zero, Centigrade, by "dry ice" (solidified carbon dioxide) which in one hour produced an additional temperature difference of 23 degrees Centigrade, a total of 45 degrees Centigrade, which allowed the shaft to swing free, and it was lowered out of the rotor.

The shaft was shipped to the manufacturer for repairs and on its return was replaced in the rotor by the same method with the exception that iced water was used for cooling instead of "dry ice", since, due to its not being in contact with the rotor, the entire mass of the shaft could be reduced to a uniform temperature.

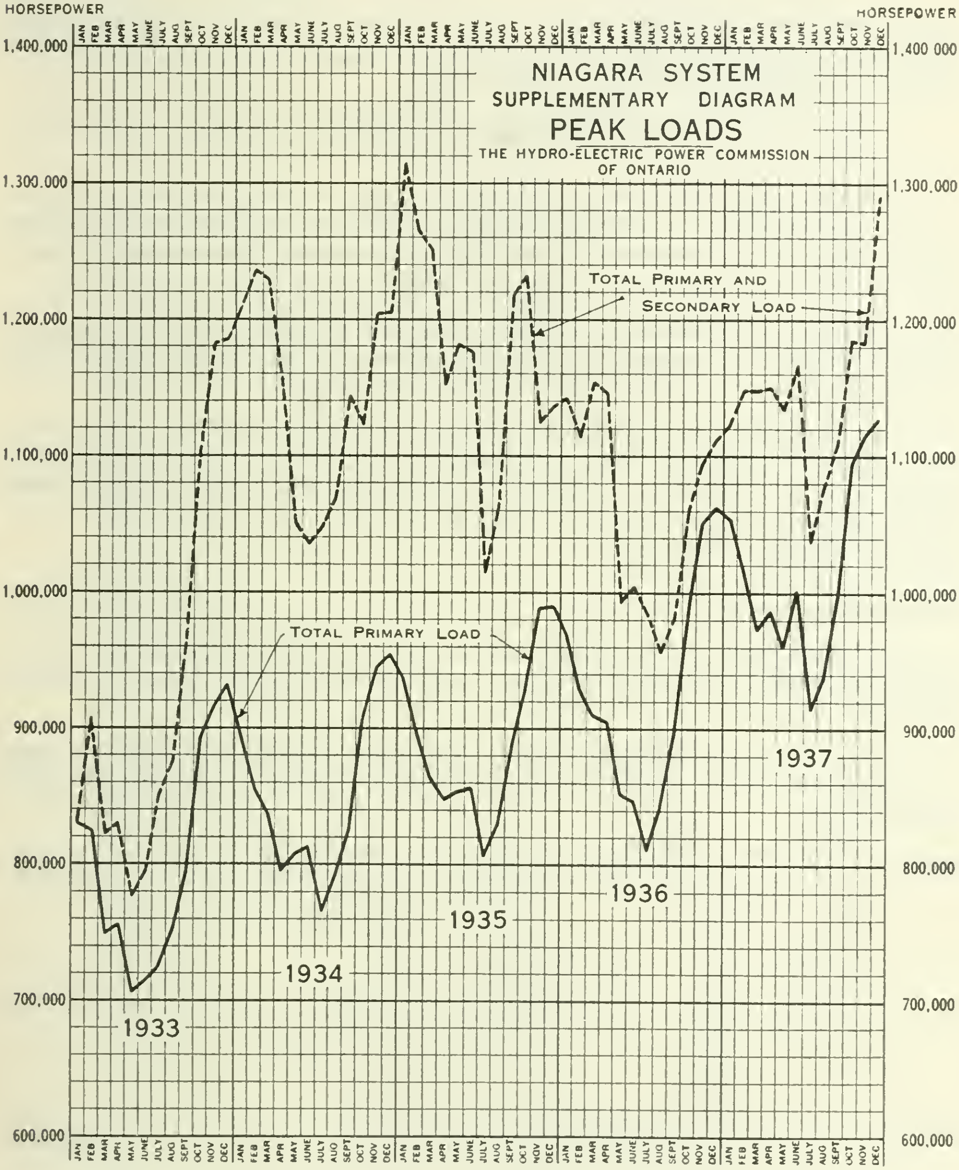
During all of these operations the entire rotor was completely housed in order to conserve heat and the shaft was insulated with Kapok to eliminate condensation and prevent entrance of heat.

The Commission's Laboratory also developed a method of measuring the loading on each of the six jack screws in the thrust bearing, whereby the weight carried is known to be distributed uniformly to each bearing shoe.

While this unit was out of service a turbine bearing of new design was installed, all parts and allied equipment were inspected and repairs or replacements made where necessary.

The "A" service generating unit was dismantled for replacement of blocking in lignum vitae guide bearing, rebalancing of the brake wheel and a complete cleaning, inspection and repair or replacement of all allied equipment.

Steel flood gates have been constructed and are to be installed in the east wall of the power house building at elevation 264, replacing the original wooden gates.



SUPPLEMENTARY DIAGRAM— NIAGARA SYSTEM PEAK LOADS

Notes

TOTAL PRIMARY LOAD: Primary power is power which the Commission is under contractual obligation to supply and for which it is obligated to hold in reserve adequate capacity. The graph above includes only the actual delivery of such power, and does not include the amount by which the primary power contracts exceed actual deliveries.

TOTAL PRIMARY AND SECONDARY LOAD: Includes, in addition to the primary load, at-will power which the Commission is under no obligation to hold in reserve. Such power has been sold in Ontario and exported to Quebec and the United States. The above graph includes all secondary power and therefore differs from the graphs on pages 18 and 19 which show only the load in Canada

Two 1,500 gallon pumps have been installed to discharge the waste cooling water from the transformer water tunnel, in case the water in the river rises to an elevation which requires the new winch-operated steel bulkhead to be installed at the discharge end of the tunnel.

A new oil filter, of the blotter press type, has been built to replace the centrifugal filters used on the thrust bearing oil.

Ten new indicating frequency meters were installed on main unit and service panels. These are of the resonant circuit type and replace the original synchronous motor meters. Also, two graphic frequency meters were added to the control room, one for the Green and one for the Yellow sub-systems.

Considerable building maintenance has been carried on such as repairs to tile roofs, steel work and the painting of the main entrance hall, a portion of the screen house proper and No. 5 floor of the power house.

The work of rough surfacing the cliff face with stone masonry is well under way and will effectively stop weathering of the cliff, reduce the hazard of falling rock to a minimum, and make a presentable appearance. Repairs were made to the road bed of the railway connecting the power house and the receiving depot at Queenston.

Ontario Power Station

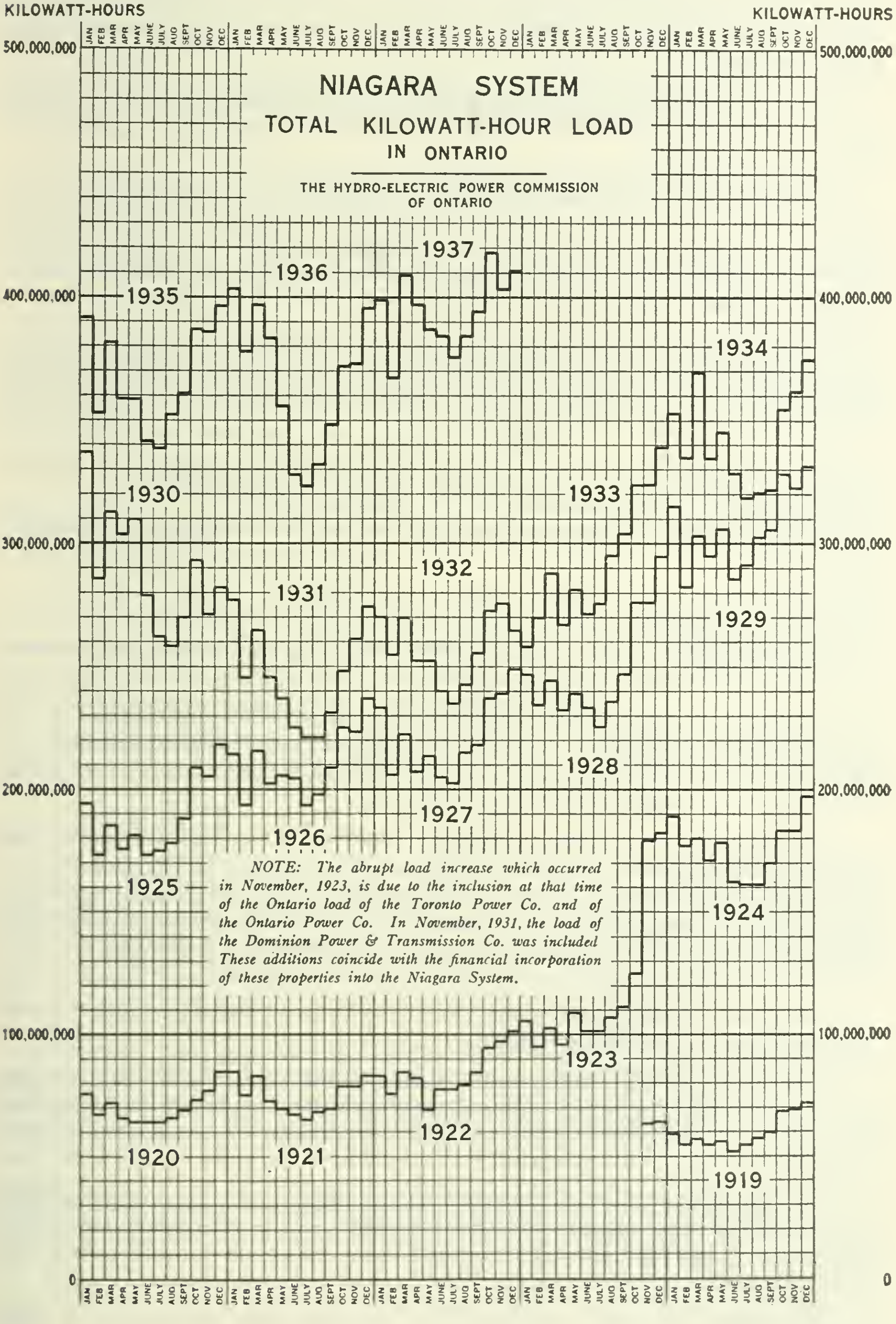
The equipment in the Ontario Power station, situated on the river bank below the Horseshoe Falls at Niagara, gave very satisfactory operation during the year.

The undernoted generating units, with their associated equipment, were removed from service during the summer months for inspection and necessary maintenance:

Number 4 unit from October 28 to October 31,
" 5 " " October 14 to October 18,
" 6 " " October 21 to October 24,
" 7 " " June 27 to July 3,
" 8 " " June 20 to June 25,
" 9 " " June 6 to June 12,
" 10 " " June 13 to June 18,
" 11 " " July 4 to July 9,
" 12 " " July 12 to July 16,
" 13 " " July 19 to July 24,
" 14 " " July 26 to July 29,
" 15 " " August 3 to August 6.

The inspection of units 1, 2 and 3 was delayed until after October 31, due to the necessity of removing number 7 generator from service to install a complete new armature winding following a failure in the coils on August 5. This latter machine was returned to service on October 1.

During the above periods all machines were carefully inspected, generator windings were cleaned and varnished, eroded sections in turbines and draft tubes were built up by electric welding, gates and bushings were adjusted, and bearings cleaned, inspected and the oil filtered. The governors and relief valves



NIAGARA SYSTEM

TOTAL KILOWATT-HOUR LOAD IN ONTARIO

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

NOTE: The abrupt load increase which occurred in November, 1923, is due to the inclusion at that time of the Ontario load of the Toronto Power Co. and of the Ontario Power Co. In November, 1931, the load of the Dominion Power & Transmission Co. was included These additions coincide with the financial incorporation of these properties into the Niagara System.

KILOWATT-HOURS
KILOWATT-HOURS
500,000,000
400,000,000
300,000,000
200,000,000
100,000,000
0
JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC
1935
1936
1937
1934
1930
1933
1932
1931
1929
1928
1927
1926
1925
1924
1923
1922
1920
1921
1919

were taken apart, inspected and any necessary repairs and adjustments made; all associated equipment, including oil circuit-breakers, disconnecting switches, cables, meters, relays and control wiring, was examined and repairs made where necessary.

The cleaning of the vertical sections of the penstocks to the various machines and the application of a rust preventative, reported in progress last year, was completed.

The work of connecting the 12,000-volt generator cables directly to the Niagara transformer station was completed during the year. This facilitates delivery of power to the 110,000-volt Niagara system and eliminates the hazard of intermediate switching equipment, along with its attendant maintenance expense.

Six obsolete-type oil circuit-breakers, on generators one to six, were replaced by more modern breakers released from the transformer station; changes in the system of power supply to the various exciter motor-generator sets were in progress at the end of the year.

The grounds around the intake works, transformer station and general offices have been rearranged, graded and planted with shrubbery.

All necessary maintenance was carried out on buildings, and service equipment.

Toronto Power Station

The equipment of the Toronto Power station was available for all power demands required of it during the year.

All generators and turbines were inspected; generators numbers 5, 8 and 11 were cleaned and varnished; number 8 turbine was completely dismantled, the two runners and distributors built up by electric welding where erosion had occurred, and all bearings relined and refitted.

On April 19 the generator winding of number 2 unit failed. The unit was removed from service on May 16, and a new armature winding of modern design installed in the generator, replacing the original winding after twenty-three years' service. The unit was returned to service August 6. The new winding was one of two complete new-type windings placed in stock the early part of the year.

Number 1 service water pump and the governor pumps on units 7, 9 and 10 were given a complete overhaul.

The guide arches, brake beams, railings, stairways, gallery and bearing cases of units 8, 9, 10 and 11 were cleaned and painted. Head gates numbers 2, 3, 5 and 8 were cleaned and given an application of a rust preventative material.

The interior of the 330,000-gallon stand pipe at the transformer station was cleaned by sand blasting and given a spray coat of zinc amounting to 3.5 ounces per square foot, the first extensive use of this type of protection by the Commission.

All minor equipment, buildings and grounds were maintained in good condition.

Chats Falls Station

Routine inspection and all necessary maintenance were carried out during the year on the four Commission machines. Following the return to service of the four Ottawa Valley units on February 13 it was found necessary to readjust the lignum vitae guide bearings on units 6, 7 and 8; an unbalance in the rotor of number 7 machine was corrected and the lower generator and turbine guide bearings were re-aligned.

The headworks and dams were inspected. Some 575,000 pieces of pulpwood and pine logs were passed through the dam during the season. Bare sections on the earth dam were reseeded to alfalfa.

On April 13 the frequency-changer set was made unavailable for service for approximately two months for the purpose of re-cording the 25-cycle stator in order to give additional strength against mechanical stresses on short circuit. On September 15 a stator coil on the 60-cycle side of the frequency-changer set broke down. Satisfactory operation of the high-speed relays on this unit confined the damage to the immediate vicinity of the defective coil and the machine was repaired and returned to service in five days.

The 60-cycle transformer used to supply power to the Eastern Ontario system from the frequency-changer set was changed from 44,000 volts to 110,000-volt service on October 11. The unit was unavailable for five days while this change was being made.

The tile cable ducts along the breast wall of the dam, carrying part of the 13,000-volt cables, were removed and replaced with wood racks in order to eliminate corosion of the lead sheaths from seepage water coming through the cement of the dam structure. It was necessary to do the major part of this work during early morning hours and over week-ends.

General maintenance work was carried out on railway sidings, roads, buildings, structures and grounds.

DeCew Falls Station

The DeCew Falls station, which is the main source of supply to the 66-2/3-cycle Dominion Power section of the Niagara system, gave satisfactory service during the year except for the failure in service of the main penstock valve on number 7 unit. This failure did not cause any damage to the plant as the water was successfully controlled; the valve was removed and replaced by a special cast steel section from stock, and the unit returned to service.

Number 4 unit was removed from service on August 3 for complete overhaul and installation of a new turbine runner to replace the original which was badly worn by erosion; new seal rings were installed, gate shafts were built up by welding with stainless steel and refitted with new bushings, the relief valve was completely overhauled and fitted with new seals, and the governor given a complete inspection, all worn parts being replaced. The generator was cleaned and coils revarnished. The unit was returned to service on October 31, with an increased output of 20 per cent, resulting from the replacement of the runner.

While this work was in progress the section of the screen house supplying number 4 unit was inspected, several steel beams were replaced and all steel work, including the gate, was cleaned and painted to protect it against rusting.

Mechanical and electrical maintenance was carried out as required in the plant. The roads, bridges and waterways between Allanburg and the screen house, comprising the headworks, were inspected, and repaired where found necessary; the water level in the headworks was operated approximately one foot higher to permit maximum storage of water and output, which required extra protection on the banks of the ponds to prevent erosion.

Hamilton Steam Plant

New front walls were built on four boilers and the stoker on number 5 was completely overhauled; the brick work on the two chimneys was repointed and the lightning rod protection brought up to modern requirements.

Number 1 turbine was dismantled, the blading and bearings were cleaned, and after re-assembly the rotor was rebalanced. All auxiliary equipment was inspected and overhauled.

All buildings and tracks have been properly maintained.

Transformation

At Leaside 220,000-volt transformer station number 1 25,000-kv-a synchronous condenser was completely dismantled for inspection and overhaul, the armature was cleaned and varnished, coils were re-wedged and stronger bracing with additional cording installed. It was also found necessary to re-align the stator and re-balance the rotor.

At London transformer station the 10,000-kv-a synchronous condenser was overhauled, the stator and rotor were cleaned and varnished, the coil wedges and all cording on the armature were replaced. All associated equipment was inspected and repaired where necessary.

In the 110,000-volt transformer stations all equipment gave very satisfactory service. There were no failures in service of high-voltage transformers during the past two years, largely as a result of an intensive inspection and maintenance schedule started several years ago. The use of a special testing outfit developed in the Commission's laboratory makes it possible to check and remove defective high-voltage bushings, preventing failures in ordinary service.

Thirty-two transformers were removed from service for inspection, the core bracing was tightened, core and coils cleaned, connections were checked and the oil filtered; these transformers included ten of 5,000-kv-a, three 3,000-kv-a, ten 2,500-kv-a, six 2,400-kv-a, and three 1,250-kv-a units. One set of lightning arresters was overhauled.

All equipment, including oil circuit-breakers, was inspected and repaired where necessary. Buildings and grounds were properly maintained.

Transmission

Approximately 1,190 acres of brush under and in the immediate vicinity of the 220,000-volt lines were cut, this being a material reduction on the extensive work of the past few years. Some 6½ miles of new patrol roads were constructed.

On the 110,000-volt transmission circuits, insulators on 425 miles of line were inspected and tested. The angle iron footings on 1,280 McGuigan-type towers were inspected and reinforced where necessary. On the Dominion Power transmission lines 16,050 insulators were inspected, 996 defective units were replaced, and 1,356 poles were straightened. Regular patrol and maintenance were carried out on all lines.

The operating telephone lines were regularly patrolled and maintained in good condition and some 16 miles were rebuilt.

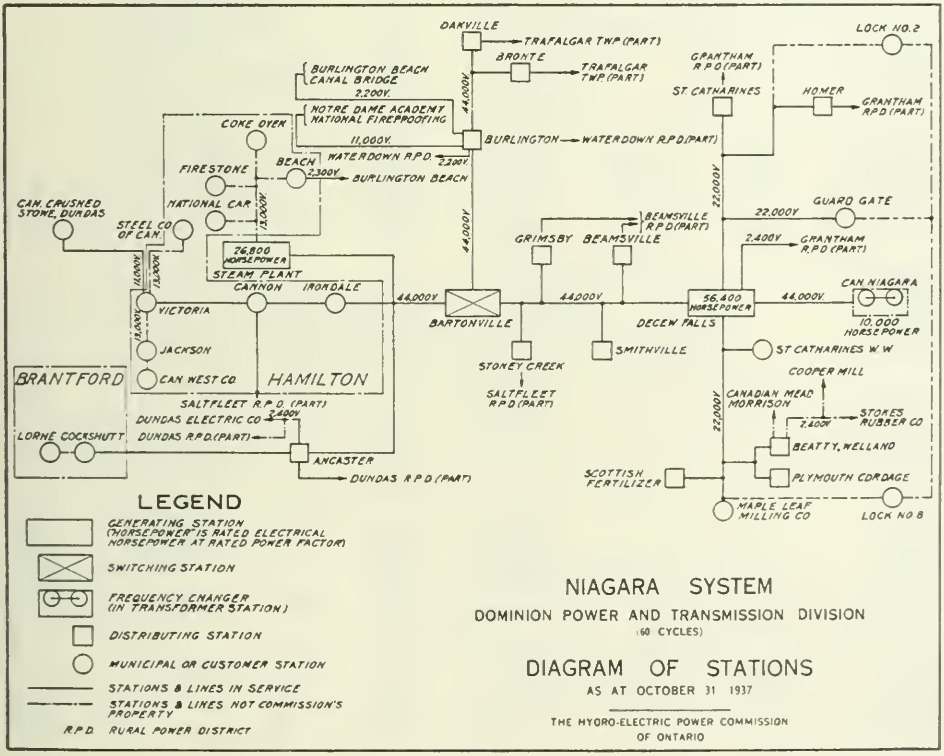
Distribution

There were eleven failures of low-tension transformers during the year, seven of which were repaired by the field maintenance staff and four by the manufacturers; the one under repair at the end of last year was completed. All equipment, including oil circuit-breakers, was inspected during the year and repairs and readjustments made where necessary.

No extreme difficulties were encountered in the operation and maintenance of the low-tension lines, although severe wind storms caused some damage in the Chatham, Sarnia and Stratford areas, resulting in interruptions to service in some districts.

The 45-mile section of single-circuit line from Sebringville Junction to Harriston, undergoing overhaul at the end of last year, was completed. The ground wire was removed from approximately 72 miles and conductor transferred to pole-top pins on some 53 miles of line. As a result of extensive highway construction, it was necessary, at various places, to relocate or rebuild approximately 10 miles of line.

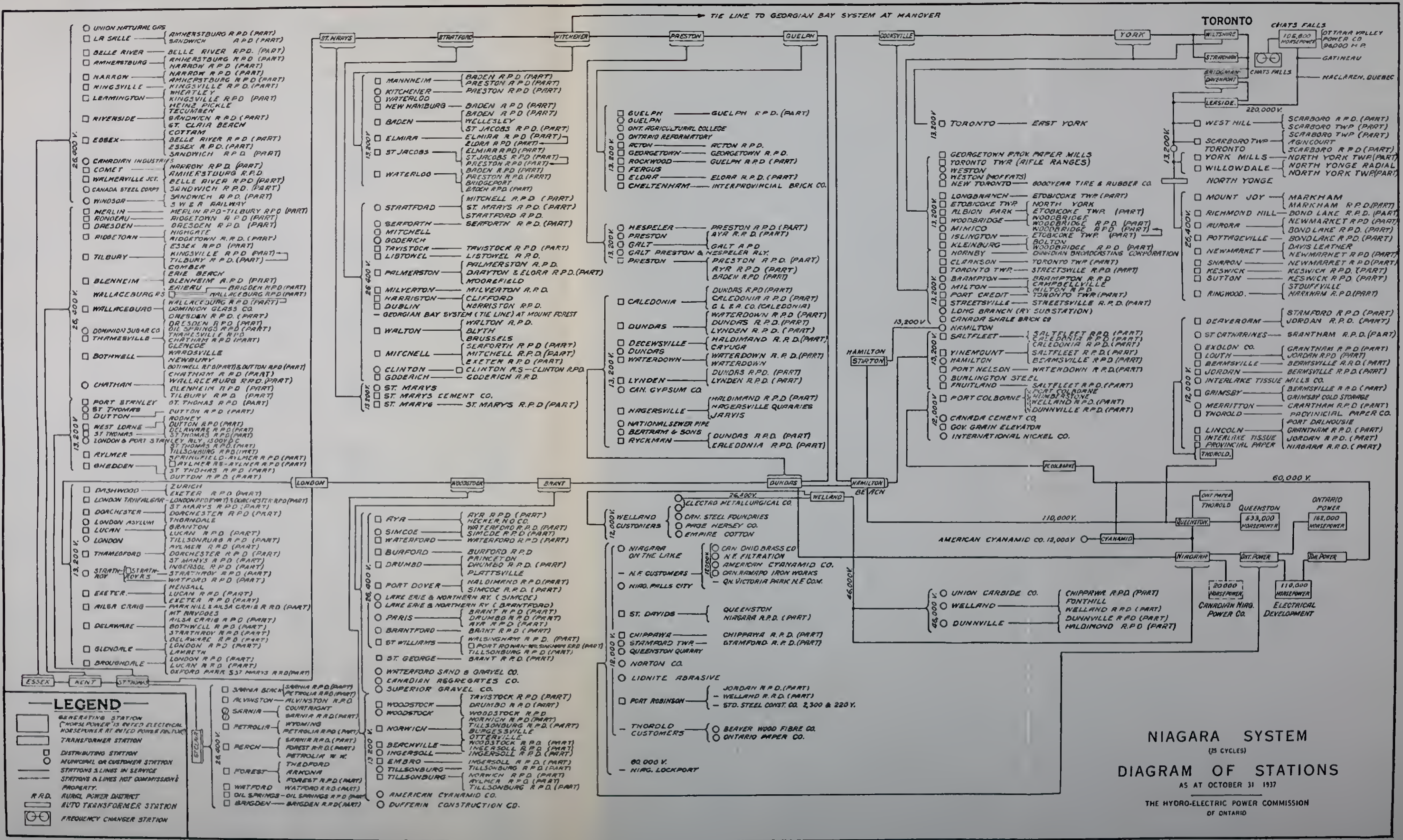
The poles on some 450 miles of line were inspected at the ground line and approximately 12,800 sand-creosote collars for ground line preservation were installed during the year.


OAKVILLE
TRAFALGAR TWP (PART)
BRONTE
TRAFALGAR TWP. (PART)
BURLINGTON BEACH CANAL BRIDGE
2,200V.
NOTRE DAME ACADEMY NATIONAL FIREPROOFING
11,000V.
44,000V
BURLINGTON
WATERDOWN R.P.D.(PART)
WATERDOWN R.P.D.
2,200V.
COKE OVEN
FIRESTONE
BEACH
2,300V
BURLINGTON BEACH
NATIONAL CAR
13,000V.
CAN. CRUSHED STONE, DUNDAS
STEEL CO OF CAN.
11,000V.
13,000V.
26,800 HORSEPOWER
STEAM PLANT
CANNON
IRONDALE
44,000V
VICTORIA
13,000V.
JACKSON
CAN WEST CO.
HAMILTON
BRANTFORD
SALTFLEET R.P.D. (PART)
DUNDAS ELECTRIC CO
2,400V
DUNDAS R.P.D.(PART)
LORNE COCKSHUTT
ANCASTER
DUNDAS R.P.D (PART)
BARTONVILLE
44,000V
GRIMSBY
BEAMSVILLE
BEAMSVILLE R.P.D(PART)
STONEY CREEK
SALTFLEET R.P.D (PART)
SMITHVILLE
GRANTHAM R.P.D (PART)
ST. CATHARINES
22,000V
HOMER
GRANTHAM R.P.D (PART)
LOCK NO.2
GUARD GATE
22,000V
2,400V
GRANTHAM R.P.D (PART)
56,400 HORSEPOWER
DECEW FALLS
44,000V.
CAN NIAGARA
10,000 HORSEPOWER
ST CATHARINES W.W.
COOPER MILL
CANADIAN MEAD MORRISON
22,000V
2,400V
STOKES RUBBER CO
BEATTY, WELLAND
SCOTTISH FERTILIZER
PLYMOUTH CORDAGE
MAPLE LEAF MILLING CO
LOCK NO 8
LEGEND
GENERATING STATION ("HORSEPOWER" IS RATED ELECTRICAL HORSEPOWER AT RATED POWER FACTOR)
SWITCHING STATION
FREQUENCY CHANGER (IN TRANSFORMER STATION)
DISTRIBUTING STATION
MUNICIPAL OR CUSTOMER STATION
STATIONS & LINES IN SERVICE
STATIONS & LINES NOT COMMISSION'S PROPERTY
R.P.D. RURAL POWER DISTRICT

NIAGARA SYSTEM
DOMINION POWER AND TRANSMISSION DIVISION
(60 CYCLES)
DIAGRAM OF STATIONS
AS AT OCTOBER 31 1937
THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

NIAGARA SYSTEM—LOADS OF MUNICIPALITIES—1935-36-37

Municipality	Peak load in horsepower			Change in load 1936-37	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Acton	1,125.7	946.1	906.9	39.2	....
Agincourt	147.4	150.1	158.2	....	8.1
Ailsa Craig	89.8	88.9	91.1	....	2.2
Alvinston	89.4	86.9	94.2	....	7.3
Amherstburg	707.2	681.2	686.8	....	5.6
Ancaster Township	282.7	299.2	314.6	....	15.4
Arkona	48.2	46.3	56.3	....	10.0
Aurora	1,016.0	1,186.3	1,162.2	24.1	....
Aylmer	487.9	544.2	694.9	....	150.7
Ayr	167.0	181.3	203.8	....	22.5
Baden	268.2	267.1	291.1	....	24.0
Beachville	395.4	418.2	470.5	....	52.3
Belle River	127.3	150.1	154.1	....	4.0
Blenheim	374.0	433.2	412.8	20.4	....
Blyth	85.8	82.1	99.6	....	17.5
Bolton	125.0	122.3	139.0	....	16.7
Bothwell	109.3	107.2	132.0	....	24.8
Brampton	2,168.8	2,326.6	2,629.0	....	302.4
Brantford	14,023.8	13,446.5	15,541.3	....	2,094.8
Brantford Township	594.9	603.9	693.0	....	89.1
Bridgeport	105.9	138.1	123.2	14.9	....
Brigden	66.7	74.0	80.1	....	6.1
Bronte	....	179.6	194.4	....	14.8
Brussels	103.2	143.4	140.3	3.1	....
Burford	139.7	160.1	147.6	12.5	....
Burgessville	31.5	35.5	41.1	....	5.6
Caledonia	341.6	361.5	332.0	29.5	....
Campbellville	26.8	27.6	32.1	....	4.5
Cayuga	116.6	115.3	126.2	....	10.9
Chatham	4,821.4	5,067.2	5,344.4	....	277.2
Chippawa	258.1	279.1	308.7	....	29.6
Clifford	64.0	69.5	77.0	....	7.5
Clinton	395.4	443.1	442.9	0.2	....
Comber	116.6	122.5	174.2	....	51.7
Cottam	62.3	58.3	68.3	....	10.0
Courtright	37.2	37.0	45.0	....	8.0
Dashwood	61.9	77.3	71.0	6.3	....
Delaware	43.1	43.1	58.3	....	15.2
Dorchester	103.1	91.8	110.9	....	19.1
Drayton	92.1	113.0	108.3	4.7	....
Dresden	289.9	308.3	321.9	....	13.6
Drumbo	66.0	59.2	69.5	....	10.3
Dublin	36.4	39.6	71.0	....	31.4
Dundas	1,495.2	1,550.9	1,686.4	....	135.5
Dunnville	930.3	963.0	1,095.9	....	132.9
Dutton	206.1	232.1	228.4	3.7	....
Elmira	680.9	700.5	678.4	22.1	....
Elora	287.5	290.4	319.7	....	29.3
Embro	86.0	107.2	113.2	....	6.0
Erieau	67.0	58.3	129.3	....	71.0


TIE LINE TO GEORGIAN BAY SYSTEM AT HANOVER
ST. MARYS
STRATFORD
KITCHENER
PRESTON
GUELPH
COOKSVILLE
YORK
TORONTO
WILTSHIRE
STRACHAN
BRIDGMAN
DAVENPORT
LEASIDE
CHATS FALLS
106,800 HORSEPOWER
OTTAWA VALLEY POWER CO 96,000 H.P.
GATINEAU
MACLAREN, QUEBEC
CHATS FALLS
220,000 V.
UNION NATURAL GAS
LA SALLE — AMHERSTBURG R.P.D (PART) / SANDWICH R.P.D (PART)
BELLE RIVER — BELLE RIVER R.P.D. (PART)
AMHERSTBURG — AMHERSTBURG R.P.D (PART) / HARROW R.P.D (PART)
HARROW — HARROW R.P.D (PART) / AMHERSTBURG R.P.D (PART)
KINGSVILLE — KINGSVILLE R.P.D. (PART) / WHEATLEY
LEAMINGTON — KINGSVILLE R.P.D (PART) / HEINZ PICKLE
TECUMSEH
RIVERSIDE — SANDWICH R.P.D (PART) / ST. CLAIR BEACH
COTTAM
ESSEX — BELLE RIVER R.P.D (PART) / ESSEX R.P.D. (PART) / SANDWICH R.P.D (PART)
CANADIAN INDUSTRIES
COMET — HARROW R.P.D (PART) / AMHERSTBURG R.P.D
WALKERVILLE JCT. — BELLE RIVER R.P.D (PART)
CANADA STEEL CORPS — SANDWICH R.P.D. (PART)
WINDSOR — SANDWICH R.P.D (PART) / S.W.E.R. RAILWAY
26,400 V.
MERLIN — MERLIN R.P.D-TILBURY R.P.D (PART)
RONDEAU — RIDGETOWN R.P.D (PART)
DRESDEN — DRESDEN R.P.D (PART)
HIGHGATE
RIDGETOWN — RIDGETOWN R.P.D. (PART)
ESSEX R.P.D (PART)
TILBURY — KINGSVILLE R.P.D (PART) / TILBURY R.P.D. (PART)
COMBER
ERIE BEACH
BLENHEIM — BLENHEIM R.P.D (PART)
ERIEAU — BLENHEIM R.P.D (PART)
WALLACEBURG R.S. — WALLACEBURG R.P.D (PART)
WALLACEBURG — WALLACEBURG R.P.D (PART) / DOMINION GLASS CO. / DRESDEN R.P.D. (PART)
DOMINION SUGAR CO — DRESDEN R.P.D (PART) / OIL SPRINGS R.P.D (PART)
THAMESVILLE — THAMESVILLE R.P.D / CHATHAM R.P.D (PART)
GLENCOE
BOTHWELL — WARDSVILLE / NEWBURY / BOTHWELL R.P.D (PART) & DUTTON R.P.D (PART)
CHATHAM — CHATHAM R.P.D (PART) / WALLACEBURG R.P.D (PART) / BLENHEIM R.P.D (PART) / TILBURY R.P.D (PART)
26,400 V.
PORT STANLEY — ST. THOMAS R.P.D (PART)
ST THOMAS — DUTTON R.P.D (PART)
DUTTON — RODNEY / DUTTON R.P.D (PART)
WEST LORNE — DELAWARE R.P.D (PART)
ST THOMAS — ST THOMAS R.P.D (PART)
LONDON & PORT STANLEY RLY. (1500 V D.C.)
ST THOMAS R.P.D (PART)
TILLSONBURG R.P.D (PART)
AYLMER — SPRINGFIELD-AYLMER R.P.D (PART) / AYLMER R.S.-AYLMER R.P.D (PART)
SHEDDEN — ST THOMAS R.P.D (PART) / DUTTON R.P.D (PART)
13,200 V.
LONDON
WOODSTOCK
BRANT
DUNDAS
HAMILTON BEACH
DASHWOOD — ZURICH / EXETER R.P.D (PART)
LONDON TRAFALGAR — LONDON R.P.D (PART) & DORCHESTER R.P.D (PART)
ST MARYS R.P.D (PART)
DORCHESTER — DORCHESTER R.P.D (PART)
LONDON ASYLUM — THORNDALE
LUCAN — GRANTON / LUCAN R.P.D (PART)
LONDON — TILLSONBURG R.P.D (PART) / AYLMER R.P.D (PART)
THAMESFORD — DORCHESTER R.P.D (PART) / ST MARYS R.P.D (PART) / INGERSOLL R.P.D (PART)
STRATHROY — STRATHROY R.S. — STRATHROY R.P.D (PART) / WATFORD R.P.D (PART)
HENSALL
EXETER — LUCAN R.P.D (PART) / EXETER R.P.D (PART)
AILSA CRAIG — PARKHILL & AILSA CRAIG R.P.D (PART)
MT BRYDGES
DELAWARE — AILSA CRAIG R.P.D (PART) / BOTHWELL R.P.D (PART) / STRATHROY R.P.D (PART) / DELAWARE R.P.D (PART)
GLENDALE — LONDON R.P.D (PART) / LAMBETH
BROUGHDALE — LONDON R.P.D (PART) / LUCAN R.P.D (PART) / OXFORD PARK S.ST MARYS R.P.D (PART)
13,200 V.
ESSEX
KENT
ST THOMAS
ST CLAIR
LEGEND
GENERATING STATION (HORSEPOWER IS RATED ELECTRICAL HORSEPOWER AT RATED POWER FACTOR)
TRANSFORMER STATION
DISTRIBUTING STATION
MUNICIPAL OR CUSTOMER STATION
STATIONS & LINES IN SERVICE
STATIONS & LINES NOT COMMISSION'S PROPERTY.
R.P.D. RURAL POWER DISTRICT
AUTO TRANSFORMER STATION
FREQUENCY CHANGER STATION
SARNIA BEACH — SARNIA R.P.D (PART) / PETROLIA R.P.D (PART)
ALVINSTON — ALVINSTON R.P.D
SARNIA — COURTRIGHT / SARNIA R.P.D (PART)
PETROLIA — WYOMING / PETROLIA R.P.D (PART)
PERCH — SARNIA R.P.D (PART) / FOREST R.P.D (PART) / PETROLIA W.W.
FOREST — THEDFORD / ARKONA / FOREST R.P.D (PART)
WATFORD — WATFORD R.P.D (PART)
OIL SPRINGS — OIL SPRINGS R.P.D (PART)
BRIGDEN — BRIGDEN R.P.D (PART)
26,400 V.
MANNHEIM — BADEN R.P.D (PART) / PRESTON R.P.D (PART)
KITCHENER — PRESTON R.P.D (PART)
WATERLOO
NEW HAMBURG — BADEN R.P.D (PART)
BADEN — BADEN R.P.D (PART) / WELLESLEY / ST JACOBS R.P.D (PART)
ELMIRA — ELMIRA R.P.D (PART) / ELORA R.P.D (PART)
ST JACOBS — ELMIRA R.P.D (PART) / ST. JACOBS R.P.D (PART) / PRESTON R.P.D (PART)
WATERLOO — BADEN R.P.D (PART) / PRESTON R.P.D (PART) / BRIDGEPORT / BADEN R.P.D (PART)
13,200 V.
STRATFORD — MITCHELL R.P.D (PART) / ST. MARYS R.P.D. (PART) / STRATFORD R.P.D.
SEAFORTH — SEAFORTH R.P.D. (PART)
MITCHELL
GODERICH
TAVISTOCK — TAVISTOCK R.P.D (PART)
LISTOWEL — LISTOWEL R.P.D.
PALMERSTON — PALMERSTON R.P.D. / DRAYTON & ELORA R.P.D. (PART) / MOOREFIELD
MILVERTON — MILVERTON R.P.D.
HARRISTON — CLIFFORD
DUBLIN — HARRISTON R.P.D.
GEORGIAN BAY SYSTEM (TIE LINE) AT MOUNT FOREST
WALTON — WALTON R.P.D. / BLYTH / BRUSSELS
MITCHELL — SEAFORTH R.P.D (PART) / MITCHELL R.P.D (PART) / EXETER R.P.D (PART)
CLINTON — CLINTON R.S. — CLINTON R.P.D
GODERICH — GODERICH R.P.D.
26,400 V.
ST. MARYS
ST. MARYS CEMENT CO.
ST. MARYS — ST. MARYS R.P.D (PART)
13,200 V.
GUELPH — GUELPH R.P.D. (PART)
GUELPH
ONT. AGRICULTURAL COLLEGE
ONTARIO REFORMATORY
ACTON — ACTON R.P.D.
GEORGETOWN — GEORGETOWN R.P.D.
ROCKWOOD — GUELPH R.P.D (PART)
FERGUS
ELORA — ELORA R.P.D. (PART)
CHELTENHAM — INTERPROVINCIAL BRICK CO.
13,200 V.
HESPELER — PRESTON R.P.D (PART) / AYR R.P.D (PART)
PRESTON
GALT — GALT R.P.D
GALT PRESTON & HESPELER RLY.
PRESTON — PRESTON R.P.D (PART) / AYR R.P.D (PART) / BADEN R.P.D (PART)
13,200 V.
CALEDONIA — DUNDAS R.P.D (PART) / CALEDONIA R.P.D (PART) / G.L. & A. CO. (CALEDONIA)
DUNDAS — WATERDOWN R.P.D (PART) / DUNDAS R.P.D (PART) / LYNDEN R.P.D. (PART)
DECEWSVILLE — HALDIMAND R.P.D. (PART) / CAYUGA
DUNDAS
WATERDOWN — WATERDOWN R.P.D (PART) / WATERDOWN
DUNDAS R.P.D. (PART)
LYNDEN — LYNDEN R.P.D (PART)
CAN. GYPSUM CO.
HAGERSVILLE — HALDIMAND R.P.D (PART) / HAGERSVILLE QUARRIES / JARVIS
NATIONAL SEWER PIPE
BERTRAM & SONS
RYCKMAN — DUNDAS R.P.D (PART) / CALEDONIA R.P.D (PART)
13,200 V.
13,200 V.
TORONTO — EAST YORK
GEORGETOWN PROV. PAPER MILLS
TORONTO TWP (RIFLE RANGES)
WESTON
WESTON (MOFFATS)
NEW TORONTO — GOODYEAR TIRE & RUBBER CO.
LONGBRANCH — ETOBICOKE TWP (PART)
ETOBICOKE TWP — NORTH YORK
ALBION PARK — ETOBICOKE TWP (PART)
WOODBRIDGE — WOODBRIDGE / WOODBRIDGE R.P.D. (PART) / WOODBRIDGE R.P.D (PART)
MIMICO
ISLINGTON — ETOBICOKE TWP (PART)
KLEINBURG — BOLTON / WOODBRIDGE R.P.D (PART)
HORNBY — CANADIAN BROADCASTING CORPORATION
CLARKSON — TORONTO TWP (PART)
TORONTO TWP — STREETSVILLE R.P.D (PART)
BRAMPTON — BRAMPTON R.P.D / CAMPBELLVILLE
MILTON — MILTON R.P.D
PORT CREDIT — TORONTO TWP (PART)
STREETSVILLE — STREETSVILLE R.P.D. (PART)
LONG BRANCH (RY SUBSTATION)
CANADA SHALE BRICK CO
13,200 V.
13,200 V.
HAMILTON
SALTFLEET — SALTFLEET R.P.D (PART) / CALEDONIA R.P.D (PART) / CALEDONIA R.P.D. (PART)
VINEMOUNT — SALTFLEET R.P.D (PART) / BEAMSVILLE R.P.D (PART)
HAMILTON
PORT NELSON — WATERDOWN R.P.D (PART)
BURLINGTON STEEL
FRUITLAND — SALTFLEET R.P.D. (PART)
PORT COLBORNE — PORT COLBORNE / HUMBERSTONE / WELLAND R.P.D (PART) / DUNNVILLE R.P.D (PART)
CANADA CEMENT CO.
GOV. GRAIN ELEVATOR
INTERNATIONAL NICKEL CO.
13,200 V.
12,000 V.
HAMILTON STATION
PT COLBORNE
13,200 V.
WEST HILL — SCARBORO R.P.D. (PART) / SCARBORO TWP (PART)
SCARBORO TWP — SCARBORO TWP (PART) / AGINCOURT
TORONTO — SCARBORO R.P.D (PART)
YORK MILLS — NORTH YORK TWP (PART)
WILLOWDALE — NORTH YONGE RADIAL / NORTH YORK TWP (PART)
NORTH YONGE
26,400 V.
MOUNT JOY — MARKHAM / MARKHAM R.P.D (PART)
RICHMOND HILL — BOND LAKE R.P.D. (PART)
AURORA — NEWMARKET R.P.D (PART) / BOND LAKE R.P.D. (PART)
POTTAGEVILLE — BOND LAKE R.P.D. (PART)
NEWMARKET — DAVIS LEATHER / NEWMARKET R.P.D (PART)
SHARON — NEWMARKET R.P.D (PART)
KESWICK — KESWICK R.P.D. (PART)
SUTTON — KESWICK R.P.D (PART)
RINGWOOD — STOUFFVILLE / MARKHAM R.P.D. (PART)
12,000 V.
BEAVERDAMS — STAMFORD R.P.D (PART) / JORDAN R.P.D. (PART)
ST CATHARINES — GRANTHAM R.P.D. (PART)
EXOLON CO. — GRANTHAM R.P.D (PART)
LOUTH — JORDAN R.P.D (PART)
BEAMSVILLE — BEAMSVILLE R.P.D (PART)
JORDAN — BEAMSVILLE R.P.D. (PART)
INTERLAKE TISSUE MILLS CO.
GRIMSBY — BEAMSVILLE R.P.D (PART) / GRIMSBY COLD STORAGE
MERRITTON — GRANTHAM R.P.D (PART)
THOROLD — PROVINCIAL PAPER CO.
PORT DALHOUSIE
LINCOLN — GRANTHAM R.P.D. (PART)
INTERLAKE TISSUE — JORDAN R.P.D. (PART)
PROVINCIAL PAPER — NIAGARA R.P.D. (PART)
THOROLD
60,000 V.
ONT PAPER THOROLD
QUEENSTON
QUEENSTON 533,000 HORSEPOWER
ONTARIO POWER 162,000 HORSEPOWER
110,000 V.
AMERICAN CYANAMID CO. 12,000 V
CYANAMID
NIAGARA
ONT. POWER
TOR. POWER
20,000 HORSEPOWER
CANADIAN NIAG. POWER CO.
110,000 HORSEPOWER
ELECTRICAL DEVELOPMENT
WELLAND
26,400 V.
12,000 V.
WELLAND CUSTOMERS — ELECTRO METALLURGICAL CO. / CAN. STEEL FOUNDRIES / PAGE HERSEY CO. / EMPIRE COTTON
NIAGARA ON THE LAKE
N.F. CUSTOMERS — 12,000 V. — CAN. OHIO BRASS CO / N.F. FILTRATION / AMERICAN CYANAMID CO. / CAN. NIAGARA IRON WORKS / QN. VICTORIA PARK N.F. COM.
NIAG. FALLS CITY
ST. DAVIDS — QUEENSTON / NIAGARA R.P.D. (PART)
12,000 V.
CHIPPAWA — CHIPPAWA R.P.D (PART)
STAMFORD TWP — STAMFORD R.P.D. (PART)
QUEENSTON QUARRY
NORTON CO.
LIONITE ABRASIVE
PORT ROBINSON — JORDAN R.P.D. (PART) / WELLAND R.P.D. (PART) / STD. STEEL CONST. CO. 2,300 & 220 V.
THOROLD CUSTOMERS — BEAVER WOOD FIBRE CO. / ONTARIO PAPER CO.
60,000 V.
NIAG. LOCKPORT
46,000 V.
46,000 V.
UNION CARBIDE CO. — CHIPPAWA R.P.D (PART) / FONTHILL
WELLAND — WELLAND R.P.D (PART)
DUNNVILLE — DUNNVILLE R.P.D (PART) / HALDIMAND R.P.D (PART)
26,400 V.
AYR — AYR R.P.D (PART) / HECKLER, NO CO.
SIMCOE — WATERFORD R.P.D. (PART) / SIMCOE R.P.D (PART)
WATERFORD — WATERFORD R.P.D (PART)
BURFORD — BURFORD R.P.D
DRUMBO — PRINCETON / DRUMBO R.P.D. (PART) / PLATTSVILLE
PORT DOVER — HALDIMAND R.P.D (PART) / SIMCOE R.P.D. (PART)
LAKE ERIE & NORTHERN RY. (SIMCOE)
LAKE ERIE & NORTHERN RY. (BRANTFORD)
PARIS — BRANT R.P.D (PART) / DRUMBO R.P.D (PART) / AYR R.P.D (PART)
BRANTFORD — BRANT R.P.D (PART)
ST WILLIAMS — WALSINGHAM R.P.D. (PART) / PORT ROWAN-WALSINGHAM R.P.D (PART) / TILLSONBURG R.P.D (PART)
ST. GEORGE — BRANT R.P.D. (PART)
WATERFORD SAND & GRAVEL CO.
CANADIAN AGGREGATES CO.
SUPERIOR GRAVEL CO.
13,200 V.
WOODSTOCK — TAVISTOCK R.P.D (PART) / DRUMBO R.P.D (PART)
WOODSTOCK — WOODSTOCK R.P.D / NORWICH R.P.D (PART)
NORWICH — TILLSONBURG R.P.D. (PART) / BURGESSVILLE / OTTERVILLE
BEACHVILLE — WOODSTOCK R.P.D. (PART)
INGERSOLL — INGERSOLL R.P.D (PART) / INGERSOLL R.P.D. (PART)
EMBRO — INGERSOLL R.P.D (PART)
TILLSONBURG — TILLSONBURG R.P.D (PART)
TILLSONBURG — NORWICH R.P.D (PART) / AYLMER R.P.D (PART) / TILLSONBURG R.P.D (PART)
AMERICAN CYANAMID CO.
DUFFERIN CONSTRUCTION CO.

NIAGARA SYSTEM

(25 CYCLES)

DIAGRAM OF STATIONS

AS AT OCTOBER 31 1937

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1935-36-37—Continued

Municipality	Peak load in horsepower			Change in load 1936-37	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Erie Beach	8.0	12.6	23.6	....	11.0
Essex	404.8	538.8	557.1	....	18.3
Etobicoke Township	4,449.0	4,657.8	5,299.4	....	641.6
Exeter	420.3	395.4	424.9	....	29.5
Fergus	882.7	1,062.3	1,169.5	....	107.2
Fonthill	145.5	130.7	139.1	....	8.4
Forest	331.1	344.9	411.8	....	66.9
Galt	5,988.5	6,409.7	7,093.3	....	683.6
Georgetown	1,089.8	1,181.3	1,220.1	....	38.8
Glencoe	166.7	198.0	172.8	25.2	....
Goderich	947.3	1,027.2	1,083.5	....	56.3
Granton	100.0	111.2	50.0	61.2	....
Guelph	8,688.3	8,822.4	9,258.0	....	435.6
Hagersville	521.5	894.0	920.2	....	26.2
Hamilton	98,859.8	96,655.4	108,284.5	....	11,629.1
Harriston	271.0	287.4	299.2	....	11.8
Harrow	376.6	475.2	489.8	....	14.6
Hensall	152.4	150.8	166.5	....	15.7
Hespeler	1,901.4	1,890.6	2,055.8	....	165.2
Highgate	64.3	73.8	70.9	2.9	....
Humberstone	365.6	407.5	446.9	....	39.4
Ingersoll	2,076.7	2,144.6	2,380.5	....	235.9
Jarvis	148.5	183.6	207.7	....	24.1
Kingsville	447.4	487.9	509.6	....	21.7
Kitchener	16,976.5	18,000.6	20,400.3	....	2,399.7
Lambeth	101.8	93.8	87.8	6.0	....
La Salle	197.3	202.1	227.5	....	25.4
Leamington	1,284.2	1,833.8	1,455.7	378.1	....
Listowel	887.4	928.9	1,006.7	....	77.8
London	31,876.0	32,373.0	34,565.2	....	2,192.2
London Township Voted Area	449.8	460.4	503.1	....	42.7
Long Branch	761.4	860.6	820.3	40.3	....
Lucan	121.3	126.6	198.8	....	72.2
Lynden	82.0	84.3	85.0	....	0.7
Markham	233.9	274.8	315.8	....	41.0
Merlin	75.0	67.0	81.2	....	14.2
Merritton	3,368.3	4,698.6	5,064.5	....	365.9
Milton	604.6	831.1	1,083.7	....	252.6
Milverton	261.4	321.7	298.9	22.8	....
Mimico	2,426.3	2,245.3	2,438.3	....	193.0
Mitchell	415.5	430.0	487.2	....	57.2
Moorefield	50.0	53.6	31.2	22.4	....
Mount Brydges	97.5	90.4	105.0	....	14.6
Newbury	48.5	43.0	31.9	11.1	....
New Hamburg	395.4	478.6	464.1	14.5	....
Newmarket	1,300.2	1,555.0	1,517.3	37.7	....
New Toronto	5,942.3	5,884.7	7,042.8	....	1,158.1
Niagara Falls	9,241.3	9,113.9	9,699.7	....	585.8
Niagara-on-the-Lake	506.0	570.2	640.4	....	70.2
Norwich	358.6	350.5	376.6	....	26.1

NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1935-36-37—Continued

Municipality	Peak load in horsepower			Change in load 1936-37	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Oakville		1,104.5	1,002.1	102.4	
Oil Springs	188.4	211.2	193.9	17.3	
Ontario Agricultural College	477.2	367.3	402.8		35.5
Ontario Central Reformatory	247.4	285.0	268.3	16.7	
Otterville	91.6	110.4	100.5	9.9	
Palmerston	420.3	408.0	465.9		57.9
Paris	1,262.2	1,157.4	1,287.0		129.6
Parkhill	128.9	150.1	144.2	5.9	
Petrolia	714.3	812.2	861.7		49.4
Plattsville	55.3	55.0	63.2		8.2
Point Edward	1,060.3	975.8	1,138.0		162.2
Port Colborne	1,405.9	1,604.0	1,753.9		149.9
Port Credit	658.2	693.0	735.9		42.9
Port Dalhousie	523.8	619.3	609.1	10.2	
Port Dover	321.6	348.2	327.1	21.1	
Port Rowan	63.0	65.1	72.0		6.9
Port Stanley	215.9	254.8	270.5		15.7
Preston	2,577.0	2,624.6	2,842.0		217.4
Princeton	95.4	100.8	116.6		15.8
Queenston	103.6	103.2	113.9		10.7
Richmond Hill	340.5	360.3	402.6		42.3
Ridgetown	467.8	479.2	477.4	1.8	
Riverside	911.8	958.7	950.6	8.1	
Rockwood	91.1	99.7	106.1		6.4
Rodney	123.2	122.6	142.1		19.5
St. Catharines	10,270.3	10,413.4	13,473.5		3,060.1
St. Clair Beach	71.4	79.0	89.1		10.1
St. George	164.3	159.5	168.0		8.5
St. Jacobs	274.8	256.0	298.9		42.9
St. Marys	1,314.1	1,280.6	1,250.6	30.0	
St. Thomas	6,246.6	7,079.0	7,496.0		417.0
Sarnia	7,558.9	7,666.2	8,288.0		621.8
Scarboro Township	3,281.5	3,357.9	3,692.2		334.3
Seaforth	518.7	508.5	517.9		9.4
Simcoe	1,675.7	1,977.2	2,006.7		29.5
Smithville		176.1	332.7		156.6
Springfield	85.7	62.0	64.3		2.3
Stamford Township	1,966.2	2,059.8	2,197.6		137.8
Stouffville	196.8	221.1	221.5		0.5
Stratford	6,436.0	6,904.8	6,906.3		1.5
Strathroy	971.8	1,155.4	1,132.7	22.8	
Streetsville	99.8	112.6	123.3		10.7
Sutton	151.8	192.0	240.2		48.2
Tavistock	471.8	483.1	571.0		87.9
Tecumseh	371.0	289.8	401.6		111.8
Thamesford	155.0	160.2	157.1		6.9
Thamesville	188.4	193.5	198.6		5.1
Thedford	135.1	110.5	129.0		18.5
Thorndale	42.0	37.4	43.5		6.1
Thorold	1,958.6	2,221.3	1,886.2	335.1	

NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1935-36-37—Concluded

Municipality	Peak load in horsepower			Change in load 1936-37	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Tilbury	558.9	516.0	541.3	....	25.3
Tillsonburg	870.5	951.1	1,085.9	....	134.8
Toronto	297,723.8	311,327.1	330,459.8	....	19,132.7
Toronto Township	2,034.8	2,164.2	2,278.1	....	113.9
Trafalgar Township Area No. 1	....	378.5	383.9	....	5.4
Trafalgar Township Area No. 2	....	131.5	113.3	18.2	....
Wallaceburg	1,829.8	1,955.7	2,281.4	....	325.7
Wardsville	30.8	32.9	34.3	....	1.4
Waterdown	206.4	218.6	217.7	0.9	....
Waterford	362.4	398.8	420.1	....	21.3
Waterloo	2,864.6	2,946.4	3,599.2	....	652.8
Watford	187.6	234.6	237.2	....	2.6
Welland	3,745.7	4,428.1	5,668.9	....	1,240.8
Wellesley	119.0	95.0	93.4	1.6	....
West Lorne	107.2	132.4	116.9	15.5	....
Weston	2,955.8	3,376.6	3,790.8	....	414.2
Wheatley	129.3	139.1	150.9	....	11.8
Windsor	....	40,254.5	37,024.1	3,230.4	....
Woodbridge	340.5	343.1	408.8	....	65.7
Woodstock	5,073.7	5,227.9	6,025.5	....	797.6
Wyoming	64.6	72.6	75.0	....	2.4
York, East, Township	5,826.0	5,861.4	6,483.3	....	621.9
York, North, Township	3,258.7	3,544.6	3,966.4	....	421.8
Zurich	68.6	81.2	80.0	1.2	....

NIAGARA SYSTEM—LOADS OF NEW MUNICIPALITY

Municipality	Date connected	Load in horsepower		Change in load	
		Initial	Oct. 1937	Decrease	Increase
Swansea	Oct. 9, 1937	2,817.6	2,817.6	....	....

NIAGARA SYSTEM—RURAL POWER DISTRICT LOADS, 1935-36-37

Rural power district	Peak load in horsepower			Change in load 1936-37	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Acton	11.0	11.0	18.0	....	7.0
Ailsa Craig	6.4	6.4	7.47	....	1.07
Alvinston	3.1	3.1	6.0	....	2.9
Amherstburg	483.6	515.1	655.9	....	140.8
Aylmer	313.3	392.2	489.5	....	97.3
Ayr	43.5	49.0	51.0	....	2.0
Baden	416.7	458.8	562.8	....	104.0
Beamsville	1,111.3	1,487.0	1,613.3	....	126.3
Belle River	194.0	273.2	276.7	....	3.5
Blenheim	163.8	181.0	130.9	50.1	....

NIAGARA SYSTEM—RURAL POWER DISTRICT LOADS, 1935-36, 37—Continued

Rural power district	Peak load in horsepower			Change in load 1936-37	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Bond Lake	1,179.3	1,311.8	1,386.6	....	74.8
Bothwell	196.5	225.9	248.1	....	22.2
Brampton	147.6	143.9	227.5	....	83.6
Brant	498.1	666.1	715.0	....	48.9
Brigden	46.6	50.7	49.3	1.4	....
Burford	154.6	178.8	205.5	....	26.7
Caledonia	372.2	415.8	464.2	....	48.4
Chatham	468.6	515.4	581.5	....	66.1
Chippawa	122.8	145.2	167.9	....	22.7
Clinton	128.2	143.7	169.1	....	25.4
Delaware	316.6	354.5	401.23	....	46.73
Dorchester	340.1	386.4	417.1	....	30.7
Dresden	38.9	44.5	78.4	....	33.9
Drumbo	77.5	111.1	176.9	....	65.8
Dundas	741.4	782.4	906.8	....	124.4
Dunnville	41.5	41.5	55.0	....	13.5
Dutton	133.1	143.8	173.8	....	30.0
Elmira	82.1	93.8	98.0	....	4.2
Elora	111.2	123.1	185.2	....	62.1
Essex	217.4	234.1	303.0	....	68.9
Exeter	239.2	247.6	288.3	....	40.7
Forest	36.8	40.4	66.0	....	25.6
Galt	200.5	222.6	264.1	....	41.5
Georgetown	147.4	170.2	205.8	....	35.6
Goderich	110.3	106.1	117.8	....	11.7
Grantham	629.1	649.8	683.4	....	33.6
Guelph	491.4	535.4	599.4	....	64.0
Haldimand	225.1	314.0	317.0	....	3.0
Harriston	20.1	21.7	31.4	....	9.7
Harrow	287.4	339.9	439.6	....	99.7
Ingersoll	427.2	500.0	612.3	....	112.3
Jordan	321.9	345.2	482.0	....	136.8
Keswick	249.5	375.7	506.9	....	131.2
Kingsville	480.8	635.8	718.0	....	82.2
Listowel	174.2	196.7	243.3	....	46.6
London	1,848.6	2,028.1	2,252.9	....	224.8
Lucan	55.3	55.0	116.1	....	61.1
Lynden	177.2	227.3	220.5	6.8	....
Markham	466.2	555.1	679.0	....	123.9
Merlin	212.1	214.6	256.78	....	42.18
Milton	175.6	178.3	201.4	....	23.1
Milverton	83.1	103.4	130.5	....	27.1
Mitchell	190.4	215.1	245.7	....	30.6
Newmarket	260.6	334.4	362.5	....	28.1
Niagara	611.7	548.7	814.2	....	265.5
Norwich	306.2	336.6	405.3	....	68.7
Oil Springs	37.7	39.3	61.8	....	22.5
Palmerston	52.8	56.2	73.1	....	16.9
Petrolia	29.3	30.3	45.9	....	15.6
Preston	948.3	1,018.9	1,273.6	....	254.7

NIAGARA SYSTEM—RURAL POWER DISTRICT LOADS, 1935-36,37—Concluded

Rural power district	Peak load in horsepower			Change in load 1936-37	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Ridgetown	271.1	302.8	388.3		85.5
St. Jacobs	249.8	242.5	270.0		27.5
St. Marys	220.5	245.5	293.6		48.1
St. Thomas	700.4	794.4	867.1		72.7
Saltfleet	1,058.0	1,310.9	1,434.05		123.15
Sandwich	1,030.9	1,095.4	1,212.41		117.01
Sarnia	490.7	613.2	718.3		105.1
Scarboro	397.4	507.2	644.8		137.6
Seaforth	63.7	71.2	72.9		1.7
Simcoe	249.6	325.3	388.55		63.25
Stamford	176.6	182.5	247.1		64.6
Stratford	158.6	192.0	236.8		44.8
Strathroy	115.0	125.5	163.9		38.4
Streetsville	360.6	435.6	428.9	6.7	
Tavistock	205.0	242.6	336.1		93.5
Thamesville	120.9	140.2	145.6		5.4
Tilbury	158.4	218.2	271.72		53.52
Tillsonburg	369.8	448.7	525.2		76.5
Wallaceburg	223.2	231.2	297.7		66.5
Walsingham	239.8	334.2	523.8		189.6
Walton	103.2	148.5	123.3	25.2	
Waterdown	983.4	1,267.2	1,391.1		123.9
Waterford	215.0	265.9	316.3		50.4
Watford	17.5	36.7	44.4		7.7
Welland	1,168.9	1,265.3	1,586.2		320.9
Woodbridge	594.3	728.5	790.7		62.2
Woodstock	582.0	667.8	771.7		103.9

GEORGIAN BAY SYSTEM

Operation

The Georgian Bay system peak load was ten per cent, and the energy distributed six per cent, in excess of last year. Water conditions generally throughout the system were much better than in the previous year and the additional energy requirements were taken care of by increased output of Eugenia Falls plant and the plants on the Severn river and by increased transfer from Niagara system, through the Hanover frequency-changer set. Only a small amount of power was purchased from the Orillia Water, Light and Power Commission. This occurred in the first half month of the fiscal year and for a very short period in March during line trouble.

A number of changes and additions were made this year to facilitate transfer of power between districts and to improve voltage regulation. Briefly summarized, these include the construction of a 38,000-volt line from Waubaushene to Fergusonvale, the reinsulation for 38,000-volt operation of one of the

22,000-volt circuits from Fergusonvale to Collingwood, and of the 22,000-volt tie line from Collingwood to Eugenia power house, the removal of the two 3,000-kv-a, 38,000/22,000-volt auto-transformers from Waubaushene to a new station at Fergusonvale, and the installation of two new 3,000-kv-a, 38,000/22,000-volt auto-transformers at Eugenia Falls generating station to replace two 1,500-kv-a units which were then transferred to Waubaushene to be placed in service at a later date. On July 11, one 3,000-kv-a auto-transformer was moved from Waubaushene to Fergusonvale and placed in service along with the new 38,000-volt line from Waubaushene to Fergusonvale. On July 18, the second 3,000-kv-a auto-transformer was moved from Waubaushene to Fergusonvale and placed in service. At the same time the reinsulated line from Fergusonvale to Eugenia generating station was placed in service at 38,000-volts. This completed the 38,000-volt tie line connecting the Muskoka, Wasdells, Severn and Eugenia districts. Between August 7 and 11, two new 3,000-kv-a, 38,000/22,000-volt auto-transformers were installed and placed in service at Eugenia generating station.

Maintenance

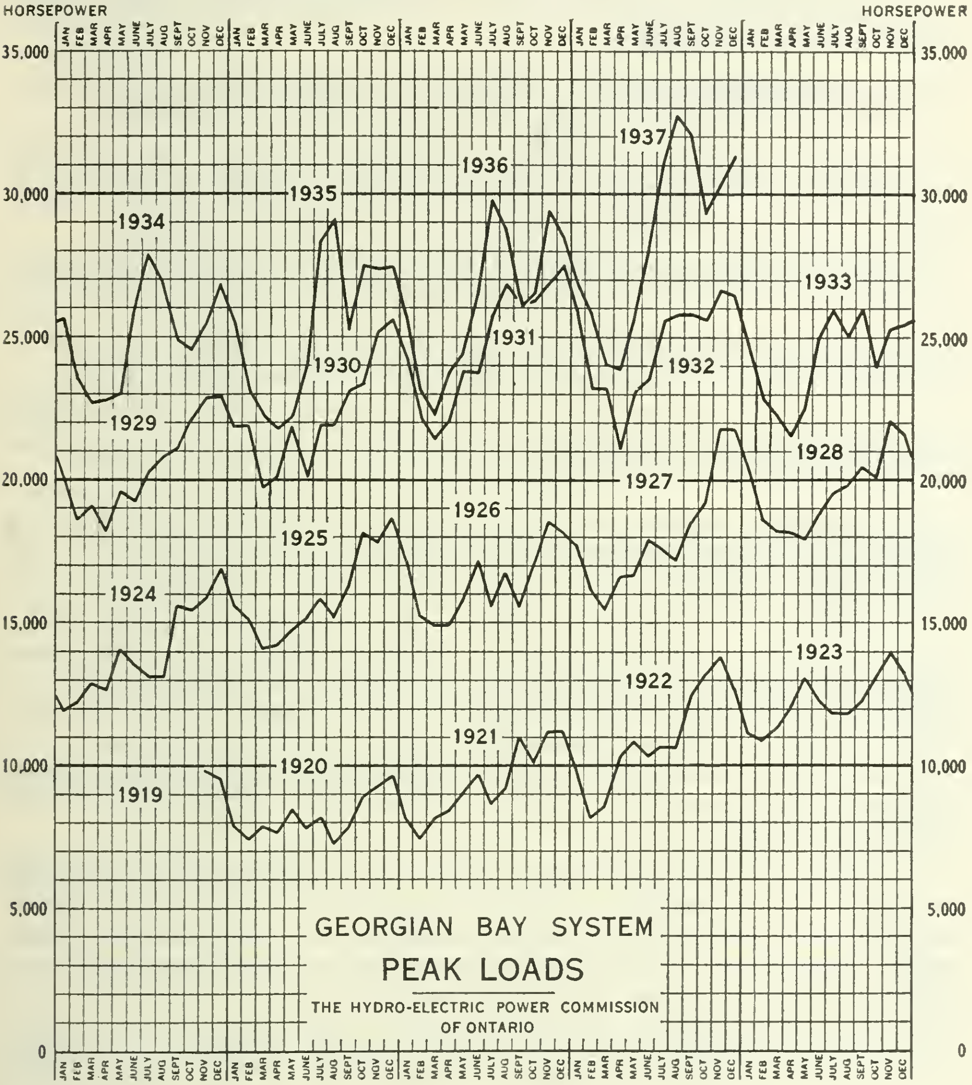
At Eugenia Falls generating station tests revealed defects in the fourteen compound-filled bushings of the two 1,500-kv-a, 38,000/22,000-volt auto-transformers, which were in service at this station previous to August 7. Seven new liquid-filled bushings were purchased and used to replace the old bushings in one transformer, eleven of the old bushings were repaired, seven re-installed in the other auto-transformer and four shipped to Paisley distributing station to replace similar defective bushings. The six banks of electrolytic lightning arresters were thoroughly overhauled, new electrolyte added and defective trays replaced. The fence along the eighth-concession fill across the storage basin was repaired or rebuilt as required and riprap placed to reinforce the posts. The machine shop lathe, which was purchased secondhand in 1919, was shipped to the manufacturer's plant where it was completely overhauled.

At Mount Forest frequency-changer station a new roof was laid, defective 2,300-volt cable between the 60-cycle oil circuit-breaker and the low-tension side of the 60-cycle transformer bank was replaced, and four of the bushings in the 60-cycle transformer bank were repaired.

At Hanover frequency-changer station discharge ducts were installed on the machines with suitable dampers to discharge the warm air through the roof in hot weather or to recirculate it through the building for heating when required. By means of a drilled well and a deep well pump suitable provision was made for a supply of cooling water for the bearings, when required, and for make-up water for the transformer cooling system.

At Big Chute generating station the roof covering was renewed by the addition of new felt, tar and gravel. The timber bridge, railing and stop-log winch tracks over the dam were replaced. In the new structure a pipe railing and steel I-beams for supports and stop-log winch tracks were used in place of timber.

At Bala No. 1 generating station all gate bolts and brass bushings in the gates of the two turbines were replaced. The turbine casings were cleaned and



NOTE:—The Georgian Bay system includes the Severn, Eugenia, Wasdells, Muskoka and Bala districts. In the diagram the load for the Muskoka district is not included until November, 1924. Details respecting this load for preceding years are given in earlier annual reports. The load of the Bala district is not included in above graph until April, 1931, previous meter records being incomplete.

painted with red lead. Two cases of failure of armature coil insulation occurred in No. 2 machine and fourteen coils were replaced.

At Bala No. 2 generating station a large concrete patch was placed over a defective portion of the north wall of the turbine pit.

At South Falls generating station the No. 2 headgate was completely rebuilt and defective timbers in No. 1 and No. 3 headgates were replaced. Repairs were necessary on two piers of the dam owing to spalling and checking of the concrete around the stop-log gains. These were effected by bolting heavy upright timbers to the piers.

At Southampton, Hanover, Walkerton, Wasdells, Hanna Chute and Trethewey generating stations only routine maintenance was required.

At Alliston distributing station the transformer capacity was increased from 225 kv-a to 375 kv-a, new high-voltage fuses installed, the old airbreak switch removed, a new fence erected and a roof ventilator installed.

At Barrie distributing station a 24-volt battery with trickle charger was installed to provide direct current for tripping the oil circuit-breaker.

At Bradford distributing station new high-voltage fuses were installed, a new pole structure and fence erected, and the old airbreak switch removed.

At Coldwater distributing station new high-voltage fuses were installed. New low-voltage lightning arresters were provided owing to a change in distribution voltage from 2,300 to 4,000 volts.

At Cookstown distributing station new high-voltage fuses and lightning arresters, and low-voltage fuses were installed, a new fence erected, the old airbreak switch removed, and a concrete pad provided for the transformer.

At Collingwood distributing station certain changes were required owing to the conversion of the Eugenia-Severn tie line to 38,000 volts. Collingwood was formerly supplied by two 22,000-volt circuits from Severn district, and one 22,000-volt circuit from Eugenia district, the tie between the two districts being through Collingwood distributing station. Under the new set-up the town is served by one 22,000-volt circuit from Severn district with switches arranged so that emergency service can be provided at 22,000 volts over the 38,000-volt circuit.

At Holland Centre distributing station the 10-kv-a 22,000/110-220-volt transformer was damaged by lightning August 13. A new winding was purchased from the manufacturer and the transformer was rebuilt by the Niagara system maintenance staff at Davenport station. A spare transformer was installed to provide service while these repairs were made.

At Innisfil distributing station the transformer capacity was increased from 450-kv-a to 750-kv-a, and new low-voltage fuses were installed.

At Meaford distributing station the transformer connections were changed for operation at 38,000 volts July 18, when the Eugenia-Severn tie line was placed in service at this voltage, as Meaford is supplied from this tie line. The high-voltage fuses and lightning arresters were replaced and voltage regulators were installed.

At Owen Sound distributing station a leak developed in a cooling coil of one of the transformers and considerable oil was drawn from the transformer. This leak was repaired and all oil in the transformer was filtered to remove any moisture which might have been drawn into the oil.

At Paisley distributing station the transformer capacity was increased from 225 kv-a to 450-kv-a. Three 75-kv-a, 22,000/2,300-volt transformers were removed and three 150-kv-a, 22,000/4,800-volt transformers were installed to provide 8,000-volt service for the rural feeder. To provide 4,000-volt service for Paisley distribution, three 50-kv-a, 4,800/2,400-volt transformers were installed.

At Penetang distributing station a 300-kv-a transformer failed in service and was returned to the manufacturer for repairs.

At John E. Russell distributing station a 150-kv-a transformer failed in service and was returned to the manufacturer for repairs.

At Thornton and Tottenham distributing stations new high- and low-voltage fuses were installed, new fences erected, the old airbreak switches removed and concrete pads provided for the transformers.

At Waubaushene distributing station the transformer capacity was increased from 75 kv-a to 150 kv-a, and two 4,000-volt feeders provided for Waubaushene and rural service.

Eleven municipalities were assisted with the operation and maintenance of their distribution systems on nineteen occasions.

Blasting operations of highway contractors along the Muskoka-Wasdells tie line were responsible for damage to the line on a number of occasions and temporary repairs were made in each case. Permanent repairs will be required on completion of the blasting.

The only case of transmission line failure occurred on October 19, when seven poles were broken between Dundalk and Shelburne by a very high wind.

Five obsolete airbreak switches in the Severn district were replaced with airbreak switches of modern design.

Sixty-seven storm guys were erected in the lines between Midland and Penetang, between Eugenia generating station and Flesherton and between Flesherton and Dundalk.

To accommodate changes in highway locations, extensive re-routing of lines was required between Markdale and Owen Sound, and between Cookstown and Alliston. For the same reason it was necessary to move certain poles between Waubaushene and Midland, between Wasdells Falls generating station and Brechin, at Fennels Corners north of Bradford, and in the town of Huntsville.

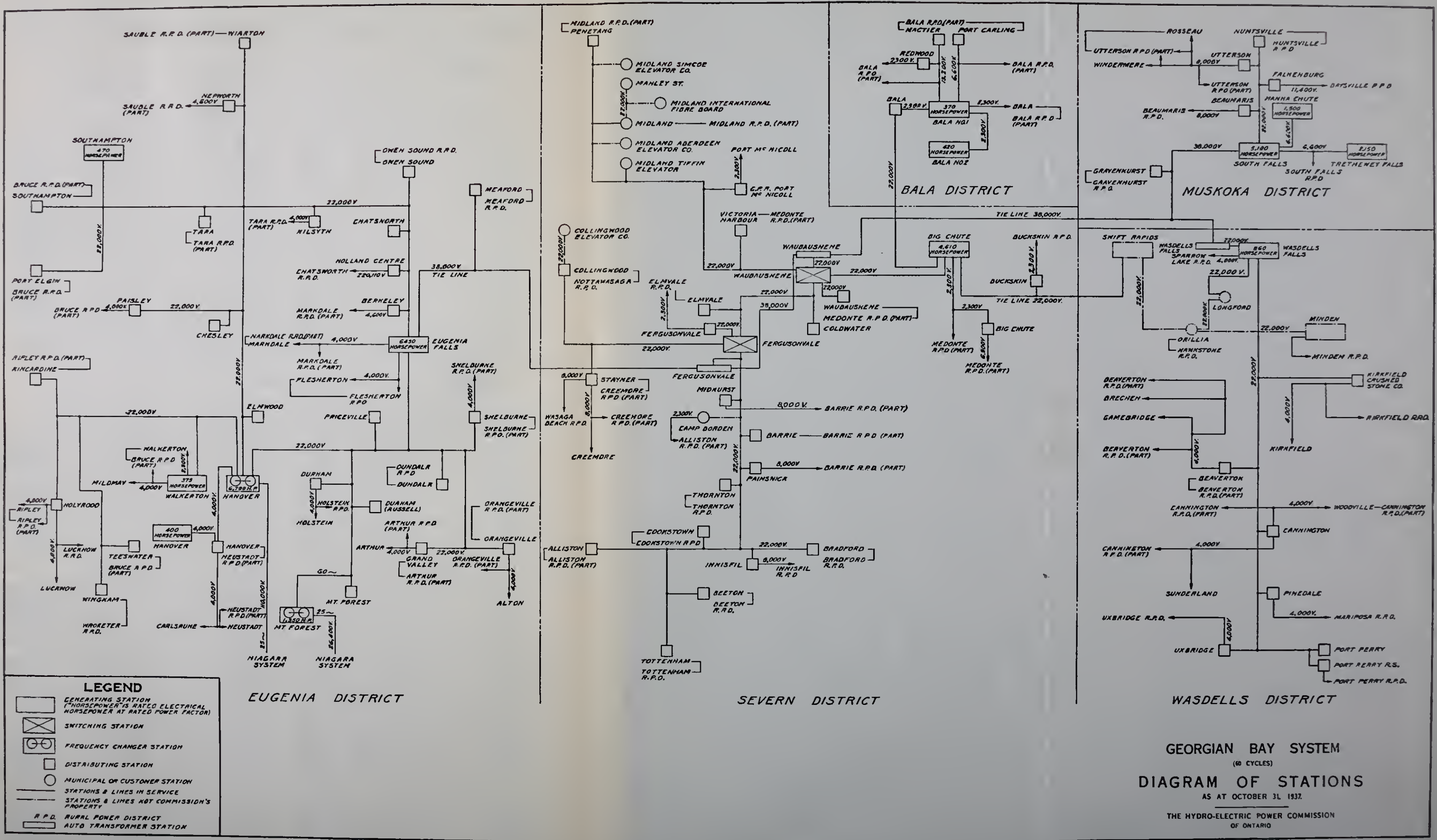
To provide sufficient clearance with the Bell Telephone Company circuits a number of guys were re-arranged in the lines between Eugenia generating station and Dundalk, between Hanover and Tara, and between Hanover and Walkerton.

Telephone communication was established between Head Office and the Severn district over a private line.

In addition to routine patrol and maintenance, 120 poles were replaced, 145 poles were reinforced by the addition of stubs and 1,350 poles received preservative treatment at the ground line by the application of sand-creosote collars. Approximately 275 defective crossarms, 700 defective insulators and 2,500 defective insulator pins were replaced.

GEORGIAN BAY SYSTEM—LOADS OF MUNICIPALITIES—1935-36-37

Municipality	Peak load in horsepower			Change in load 1936-1937	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Alliston	210.3	249.6	283.8		34.2
Arthur	130.0	156.3	143.7	12.6	
Bala	113.0	135.0	211.0		76.0
Barrie	2,396.4	2,473.6	2,678.7		205.1
Beaverton	175.6	228.8	216.5	12.3	
Beeton	97.5	96.8	114.0		17.2
Bradford	171.8	192.5	184.2	8.3	
Brechin	62.8	49.3	57.7		8.4
Cannington	145.3	142.5	154.2		11.7
Carlsruhe		5.0	5.0		
Chatsworth	56.3	66.3	65.9	0.4	
Chesley	492.6	504.0	485.2	18.8	
Coldwater	316.0	264.0	308.7		44.7
Collingwood	1,206.2	1,170.0	1,346.5		176.5
Cookstown	71.6	65.1	69.1		4.0
Creemore	101.7	100.5	104.0		3.5
Dundalk	198.4	188.2	185.0	3.2	
Durham	288.2	314.3	288.7	25.6	
Elmvale	152.4	151.8	153.5		1.7
Elmwood	54.7	68.0	52.2	15.8	
Flesherton	79.2	91.3	84.2	7.1	
Grand Valley	106.4	123.6	127.7		4.1
Gravenhurst	650.6	657.8	888.2		230.4
Hanover	1,029.5	1,046.2	1,025.1	21.1	
Hepworth	32.9	33.7	29.5	4.2	
Holstein	18.2	17.9	17.1	0.8	
Huntsville	863.2	904.6	1,000.0		95.4
Kincardine	552.7	585.6	647.1		61.5
Kirkfield	25.8	24.6	25.0		0.4
Lucknow	262.2	271.4	301.2		29.8
MacTier	134.0	129.0	149.0		20.0
Markdale	151.7	186.0	181.0	5.0	
Meaford	467.1	482.0	553.6		71.6
Midland	2,984.2	2,904.3	2,801.2	103.1	
Mildmay	81.0	89.2	107.5		18.3
Mount Forest	412.8	418.6	438.3		19.7
Neustadt	32.4	27.3	35.5		8.2
Orangeville	529.8	571.2	641.8		70.6
Owen Sound	3,307.8	3,727.4	3,837.3		109.9
Paisley	116.0	117.9	129.6		11.7
Penetanguishene	638.6	653.4	750.9		97.5
Port Carling	87.0	145.0	118.0	27.0	
Port Elgin	318.3	276.6	304.9		28.3
Port McNicoll	75.7	77.0	76.9	0.1	
Port Perry	238.8	262.0	269.7		7.7
Priceville	15.1	15.9	17.0		1.1
Ripley	58.3	58.3	56.9	1.4	
Rosseau	36.4	36.9	28.3	8.6	
Shelburne	224.1	211.4	223.6		12.2
Southampton	214.0	224.9	247.6		22.7


EUGENIA DISTRICT
SEVERN DISTRICT
BALA DISTRICT
MUSKOKA DISTRICT
WASDELLS DISTRICT
LEGEND
GENERATING STATION ("HORSEPOWER" IS RATED ELECTRICAL HORSEPOWER AT RATED POWER FACTOR)
SWITCHING STATION
FREQUENCY CHANGER STATION
DISTRIBUTING STATION
MUNICIPAL OR CUSTOMER STATION
STATIONS & LINES IN SERVICE
STATIONS & LINES NOT COMMISSION'S PROPERTY
R.P.D. RURAL POWER DISTRICT
AUTO TRANSFORMER STATION
SAUBLE R.P.D. (PART) — WIARTON
SAUBLE R.P.D. (PART)
HEPWORTH
SOUTHAMPTON 470 HORSEPOWER
BRUCE R.P.D. (PART)
SOUTHAMPTON
TARA
TARA R.P.D. (PART)
ALLENFORD
CHATSWORTH
PORT ELGIN
BRUCE R.P.D. (PART)
PAISLEY
CHESLEY
OWEN SOUND R.P.D.
OWEN SOUND
MEAFORD
MEAFORD R.P.D.
HOLLAND CENTRE
CHATSWORTH R.P.D.
BERKELEY
MARKDALE R.P.D. (PART)
38,000V TIE LINE
6430 HORSEPOWER EUGENIA FALLS
MARKDALE R.P.D. (PART)
MARKDALE
FLESHERTON
FLESHERTON R.P.D.
RIPLEY R.P.D. (PART)
KINCARDINE
ELMWOOD
PRICEVILLE
SHELBURNE R.P.D. (PART)
SHELBURNE
SHELBURNE R.P.D. (PART)
WALKERTON
BRUCE R.P.D. (PART)
375 HORSEPOWER WALKERTON
MILDMAY
6,700 H.P. HANOVER
DUNDALK R.P.D.
DUNDALK
HOLYROOD
RIPLEY
RIPLEY R.P.D. (PART)
DURHAM
HOLSTEIN R.P.D.
DURHAM (RUSSELL)
HOLSTEIN
ORANGEVILLE R.P.D. (PART)
ORANGEVILLE
400 HORSEPOWER HANOVER
HANOVER
NEUSTADT R.P.D. (PART)
ARTHUR R.P.D. (PART)
ARTHUR
GRAND VALLEY
ARTHUR R.P.D. (PART)
ORANGEVILLE R.P.D. (PART)
LUCKNOW R.P.D.
TEESWATER
BRUCE R.P.D. (PART)
LUCKNOW
WINGHAM
WROXETER R.P.D.
CARLSRUHE
NEUSTADT R.P.D. (PART)
NEUSTADT
MT. FOREST
1,350 H.P. MT. FOREST
ALTON
NIAGARA SYSTEM
NIAGARA SYSTEM
MIDLAND R.P.D. (PART)
PENETANG
MIDLAND SIMCOE ELEVATOR CO.
MANLEY ST.
MIDLAND INTERNATIONAL FIBRE BOARD
MIDLAND — MIDLAND R.P.D. (PART)
MIDLAND ABERDEEN ELEVATOR CO.
MIDLAND TIFFIN ELEVATOR
PORT McNICOLL
C.P.R. PORT McNICOLL
VICTORIA HARBOUR — MEDONTE R.P.D. (PART)
COLLINGWOOD ELEVATOR CO.
COLLINGWOOD
NOTTAWASAGA R.P.D.
ELMVALE R.P.D.
ELMVALE
WAUBAUSHENE
WAUBAUSHENE
WAUBAUSHENE
MEDONTE R.P.D. (PART)
COLDWATER
FERGUSONVALE
FERGUSONVALE
FERGUSONVALE
STAYNER
CREEMORE R.P.D. (PART)
WASAGA BEACH R.P.D.
CREEMORE R.P.D. (PART)
CREEMORE
MIDHURST
BARRIE R.P.D. (PART)
CAMP BORDEN
ALLISTON R.P.D. (PART)
BARRIE — BARRIE R.P.D. (PART)
PAINSWICK
BARRIE R.P.D. (PART)
THORNTON
THORNTON R.P.D.
COOKSTOWN
COOKSTOWN R.P.D.
ALLISTON
ALLISTON R.P.D. (PART)
BRADFORD
BRADFORD R.P.D.
INNISFIL
INNISFIL R.P.D.
BEETON
BEETON R.P.D.
TOTTENHAM
TOTTENHAM R.P.D.
BALA R.P.D. (PART)
MACTIER
PORT CARLING
REDWOOD
BALA R.P.D. (PART)
BALA R.P.D. (PART)
BALA
370 HORSEPOWER BALA NO.1
BALA
BALA R.P.D. (PART)
420 HORSEPOWER BALA NO.2
BIG CHUTE 4,610 HORSEPOWER
BUCKSKIN R.P.D.
BUCKSKIN
TIE LINE 22,000V.
BIG CHUTE
MEDONTE R.P.D. (PART)
MEDONTE R.P.D. (PART)
ROSSEAU
HUNTSVILLE
HUNTSVILLE R.P.D.
UTTERSON R.P.D. (PART)
UTTERSON
WINDERMERE
UTTERSON R.P.D. (PART)
FALKENBURG
BAYSVILLE R.P.D.
BEAUMARIS
HANNA CHUTE 1,500 HORSEPOWER
BEAUMARIS R.P.D.
5,180 HORSEPOWER SOUTH FALLS
SOUTH FALLS R.P.D.
2,150 HORSEPOWER TRETHEWEY FALLS
GRAVENHURST
GRAVENHURST R.P.D.
TIE LINE 38,000V.
SWIFT RAPIDS
WASDELLS FALLS
860 HORSEPOWER WASDELLS FALLS
SPARROW LAKE R.P.D.
LONGFORD
ORILLIA
HAWKSTONE R.P.D.
MINDEN
MINDEN R.P.D.
KIRKFIELD CRUSHED STONE CO.
KIRKFIELD R.P.D.
KIRKFIELD
BEAVERTON R.P.D. (PART)
BRECHIN
GAMEBRIDGE
BEAVERTON R.P.D. (PART)
BEAVERTON
BEAVERTON R.P.D. (PART)
CANNINGTON R.P.D. (PART)
WOODVILLE — CANNINGTON R.P.D. (PART)
CANNINGTON
CANNINGTON R.P.D. (PART)
SUNDERLAND
PINEDALE
MARIPOSA R.P.D.
UXBRIDGE R.P.D.
UXBRIDGE
PORT PERRY
PORT PERRY R.S.
PORT PERRY R.P.D.
22,000V
38,000V
27,000V
4,000V
2,300V
6,600V
8,000V
6,900V
11,400V
60~
25~
26,400V
110,000V
220,110V

GEORGIAN BAY SYSTEM
(60 CYCLES)
DIAGRAM OF STATIONS
AS AT OCTOBER 31, 1937.
THE HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO

GEORGIAN BAY SYSTEM—LOADS OF MUNICIPALITIES—1935-36-37—Concluded

Municipality	Peak load in horsepower			Change in load 1936-1937	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Stayner	196.1	242.6	218.3	24.3	....
Sunderland	59.6	65.6	72.1	....	6.5
Tara	81.7	84.8	104.6	....	19.8
Teeswater	111.7	132.5	145.4	....	12.9
Thornton	30.0	28.0	23.3	4.7	....
Tottenham	61.0	59.9	70.2	....	10.3
Uxbridge	226.9	250.7	276.1	....	25.4
Victoria Harbour	71.3	70.0	69.7	0.3	....
Walkerton	465.3	561.0	583.8	....	22.8
Waubaushene	42.2	85.3	91.5	....	6.2
Wiarton	256.7	272.2	306.2	....	34.0
Windermere	23.6	20.9	41.1	....	20.2
Wingham	374.8	362.2	350.2	12.0	....
Woodville	64.6	58.4	66.5	....	8.1

GEORGIAN BAY SYSTEM—RURAL POWER DISTRICT LOADS—1935-36-37

Rural power district	Peak load in horsepower			Change in load 1936-1937	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Alliston	86.9	100.2	120.6	....	20.4
Arthur	3.2	4.0	4.8	....	0.8
Bala	152.0	110.0	213.0	....	103.0
Barrie	240.8	301.2	418.4	....	117.2
Baysville	64.3	80.1	132.3	....	52.2
Beaumaris	116.0	123.3	175.6	....	52.3
Beaverton	138.0	135.4	196.6	....	61.2
Beeton	5.0	5.0	5.0	....	....
Bradford	55.5	52.1	79.6	....	27.5
Bruce	141.4	137.1	128.2	8.9	....
Buckskin	19.3	17.2	20.0	....	2.8
Cannington	51.9	41.0	50.0	....	9.0
Chatsworth	7.3	8.0	9.3	....	1.3
Cookstown	0.8	1.2	1.5	....	0.3
Creemore	55.0	55.0	81.0	....	26.0
Dundalk	....	8.4	12.0	....	3.6
Elmvale	67.0	75.0	87.8	....	12.8
Flesherton	8.3	7.7	11.1	....	3.4
Gravenhurst	22.3	29.3	30.0	....	0.7
Hawkestone	75.6	93.3	144.8	....	51.5
Huntsville	57.8	86.4	171.9	....	85.5
Innisfil	127.3	182.3	240.6	....	58.3
Mariposa	152.5	171.6	189.8	....	18.2
Markdale	41.4	42.0	44.9	....	2.9
Meaford	....	15.0	12.0	3.0	....
Medonte	19.0	46.1	75.8	....	29.7
Midland	41.1	97.0	128.3	....	31.3
Minden	....	29.5	46.2	....	16.7
Neustadt	....	0.8	3.5	....	2.7
Nottawasaga	32.4	36.4	36.8	....	0.4

GEORGIAN BAY SYSTEM—RURAL POWER DISTRICT LOADS—1935-36-37
Concluded

Rural power district	Peak load in horsepower			Change in load 1936-1937	
	Oct. 1935	Oct. 1936	Oct. 1937	Increase	Decrease
Orangeville	47.9	41.1	60.0	....	18.9
Owen Sound	36.7	52.7	83.6	....	30.9
Port Perry	124.6	124.4	145.5	....	21.1
Ripley	10.3	11.3	24.5	....	13.2
Sauble	7.8	24.3	28.8	....	4.5
Shelburne	31.6	47.7	38.0	9.7	....
Sparrow Lake	106.3	161.1	157.1	4.0	....
Tara	58.3	81.1	112.9	....	31.8
Thornton	13.6	12.8	17.0	....	4.2
Tottenham	....	0.4	7.0	....	6.6
Utterson	47.6	60.5	85.5	....	25.0
Uxbridge	121.3	108.1	134.7	....	26.6
Wasaga Beach	79.0	110.9	130.0	....	19.1
Wroxeter	110.9	115.0	144.4	....	29.4

GEORGIAN BAY SYSTEM—NEW RURAL POWER DISTRICT LOADS

Rural power district	Date Connected	Load in horsepower		Change in load	
		Initial	Oct. 1937	Decrease	Increase
Holstein	Nov. 1, 1936	2.5	3.0	....	0.5
Kirkfield	June 1, 1937	11.5	22.0	....	10.5
Lucknow	Nov. 1, 1936	6.0	6.0	....	....
South Falls	June 1, 1937	1.0	5.0	....	4.0

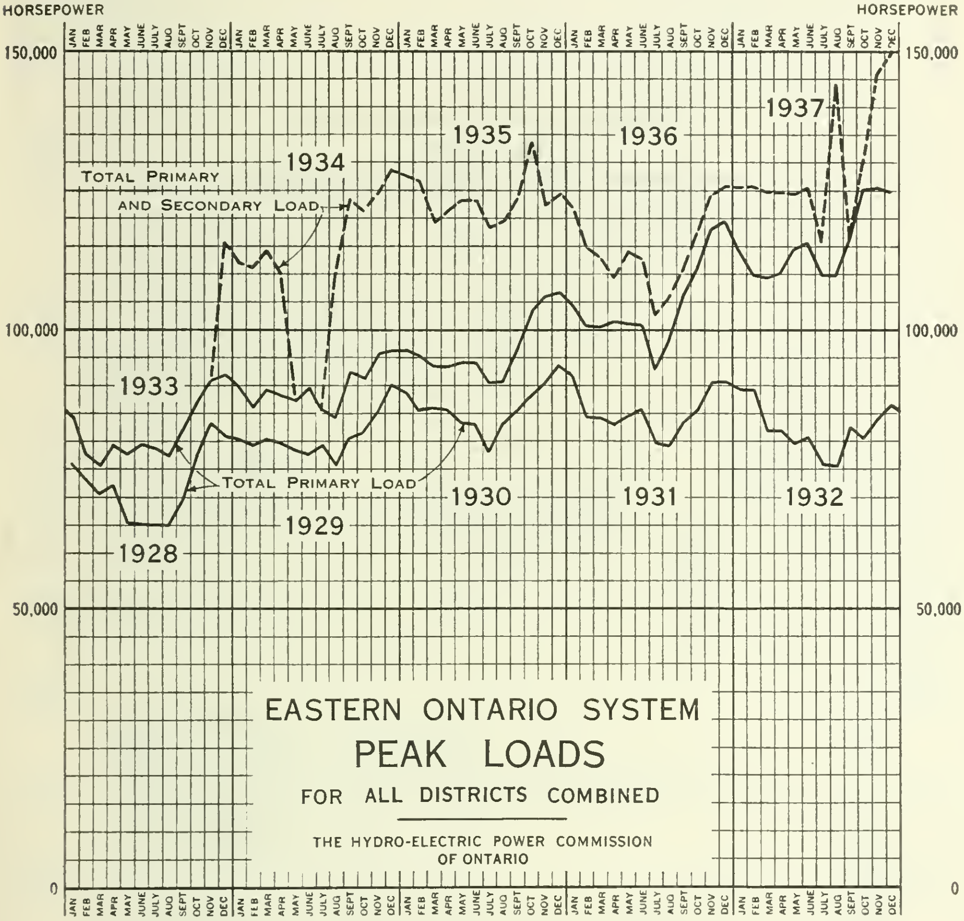
EASTERN ONTARIO SYSTEM

Operation

The Eastern Ontario system monthly primary peaks and average loads have again shown substantial increases over the previous fiscal year and have without exception exceeded all recorded maxima for corresponding months in any year. The maximum primary peak increased 12.5 per cent and the total primary kilowatt-hours increased 10.4 per cent.

Secondary power decreased from approximately 113,000,000 kilowatt-hours last year to 91,800,000 kilowatt-hours this year.

Due to increasing load demand, particularly in the Central Ontario district, and recurring periods of low stream flow resulting in serious reductions in the output capacity from Commission-owned generating stations, the system power supply was augmented by the construction of a single-circuit, 110,000-volt, wood-pole transmission line between Sidney and Chats Falls. Five small generating stations were also purchased. In addition a contract providing for the supply of 800 horsepower firm power was completed with the town of Campbellford. This supply became effective September 1, 1937.



Three of the recently acquired generating stations referred to above are situated on the Otonabee river near Lakefield and were purchased from the Canada Cement Company. The remaining two, one of which is located near Frankford and the other immediately adjacent to the Commission's plant at Ranney Falls on the Trent river, were purchased from the Quinte and Trent Valley Power Company. These plants have a presently installed output capacity of 6,800 horsepower. In order that the three plants in the vicinity of Lakefield could be paralleled with the rest of the system, a 3,000-kv-a, 44,000-volt, step-up transformer station was built at Lakefield and a 44,000-volt transmission line was constructed between this station and Auburn switching station. The plant at Frankford is now paralleled with the system at Sidney over an existing 6,600-volt feeder. Construction of step-up transformer stations and necessary interconnecting 44,000-volt lines are now in hand for both the Frankford and Ranney Falls generating stations.

Construction of the 110,000-volt Chats Falls-Sidney transmission line was completed and the line became available for service on July 21. However, as construction of the transformer station at Sidney could not be completed for

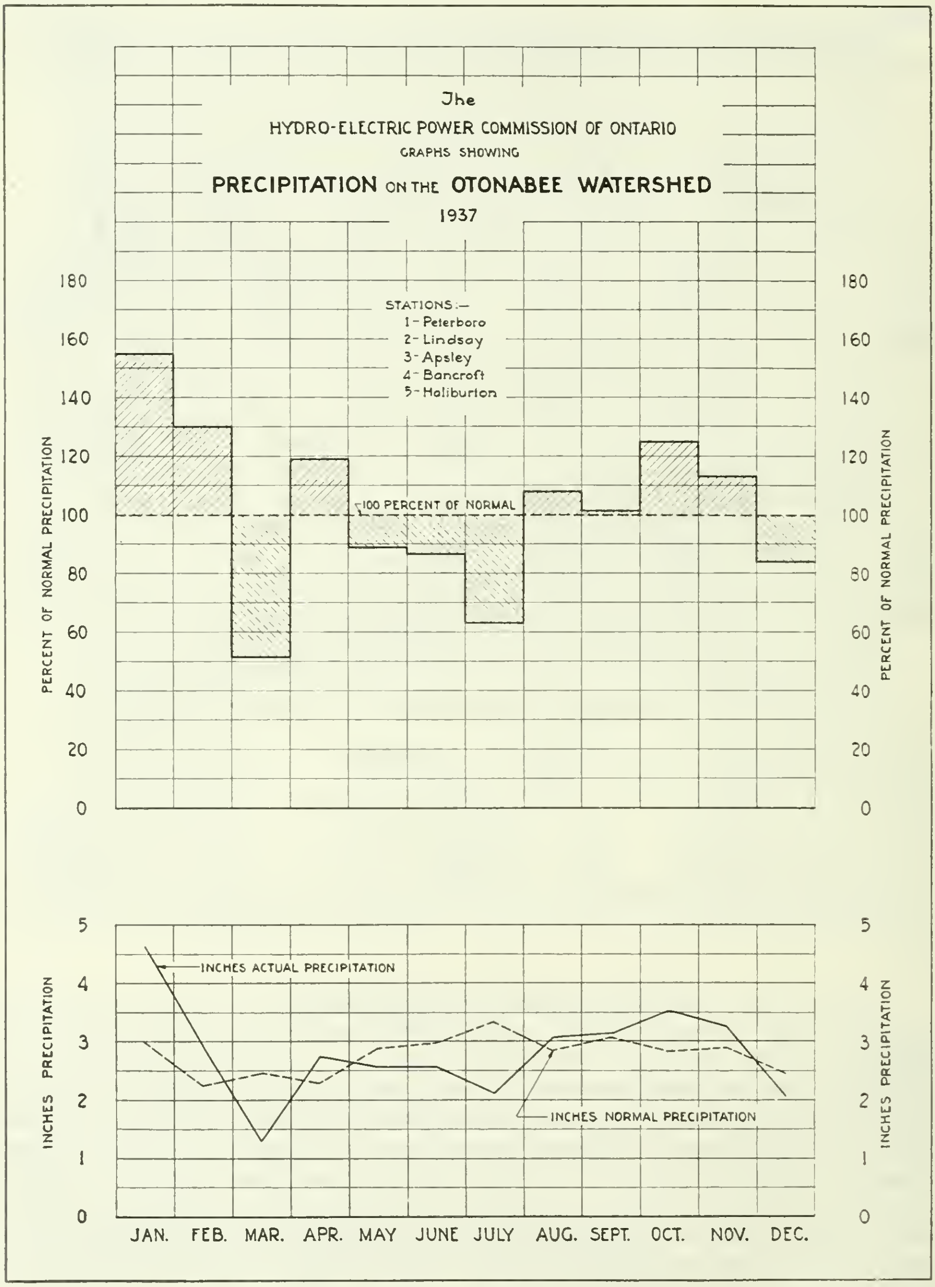


PLATE A—PRECIPITATION DATA—1937

The upper graph represents the estimated actual monthly precipitation on the Otonabee watershed expressed as a percentage of the normal precipitation.

The estimate is based upon the actual and normal return of the Meteorological Service for Peterboro, Lindsay, Apsley, Bancroft and Haliburton.

Although the numerical values differ from month to month the normal precipitation is taken as 100 per cent, hence the solidly hatched areas represent the amount by which the precipitation exceeded the average while the dotted hatched area represents in a similar manner the deficiencies.

The lower graph shows the actual and normal precipitation in inches of rain. The figures used for the actua precipitation are the numerical averages of the monthly returns from the five stations listed above. The normal figures are derived similarly but are the averages for a period of years.

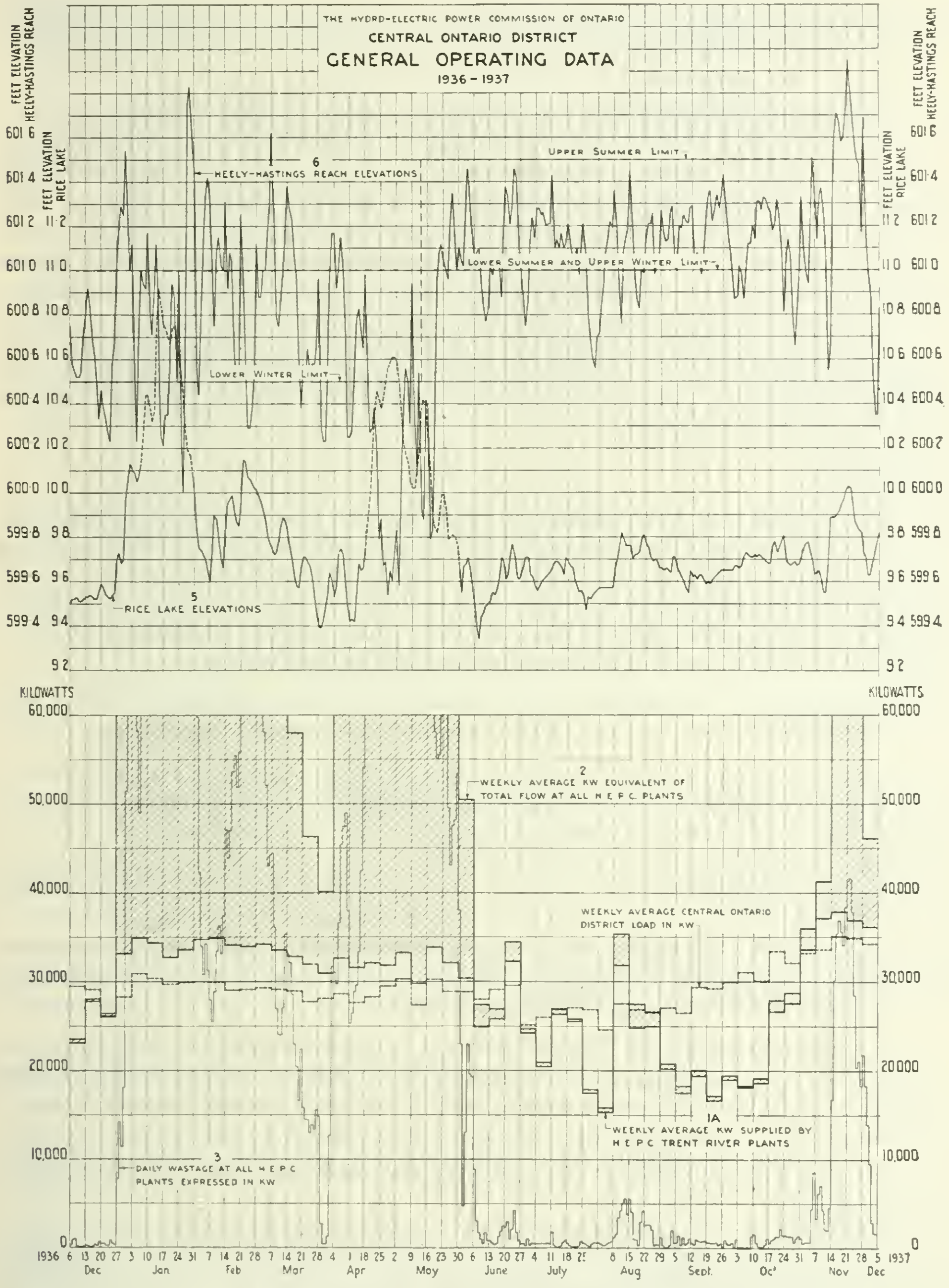


PLATE B—GENERAL OPERATING DATA—December 6, 1936, to December 5, 1937

Graph No. 1—System average weekly load in kilowatts which includes power purchased from the Gatineau Power Company.

Graph No. 1a—Weekly average load in kilowatts supplied by H-E.P.C. plants on the Trent and Otonabee rivers.

Graph No. 2—Weekly average power equivalent of total flow at all H-E.P.C. plants. This equals the weekly average load supplied by these plants, plus the power equivalent of the weekly average wastage at these plants. This wastage is shown by the dotted hatched area between curves 2 and 1a.

Graph No. 3—Average daily wastage at all H-E.P.C. plants. In the weekly aggregate the area under this graph equals the wastage represented by the dotted hatched area between curves 2 and 1a.

Graph No. 5—Midnight elevations of Rice Lake.

Graph No. 6—Midnight elevations of Heely-Hastings reach.

several weeks, the line was made available for emergency service at 44,000 volts. The frequency changer was paralleled with the system over this line on July 21 and 22 for test purposes, with satisfactory results.

Stream flow on the Trent river was appreciably better during the seasonal low flow period of 1937 than it was during the previous year. Nevertheless, there were periods during which the weekly average flows were less than 1,000 c.f.s., and the consequent reduction in generating capacity, together with substantial increases in load, made it necessary to bring into the system additional power to meet the primary load requirements. This additional power was obtained from the frequency-changer set at Chats Falls over the new line.

Service to the steam generator at the Howard Smith Paper Mills at Cornwall was discontinued on July 28 for a period of two weeks, and following this, service was only given at such times as surplus power in sufficiently large amounts became available.

Maintenance

During the year the usual program of general plant inspection and maintenance was carried out. A number of turbines were unwatered and inspected, and necessary repairs and adjustments made. The governors in the various plants were inspected and adjusted. Several of the forebays were unwatered, racks cleaned, sunken debris removed, and the concrete carefully inspected. Lightning arresters were overhauled during the winter season.

High-tension oil breakers were inspected and overhauled in accordance with the number of times they had operated under trouble conditions.

Defective high-tension bushings were replaced in a number of oil breakers and transformers. A number of defective insulators were replaced on the high-tension bus structures at several stations.

Ground detectors were installed on the direct-current circuits at several generating stations.

Painting of buildings, structures and apparatus was carried out at numerous places throughout the system. Further details are given below regarding the maintenance of various stations and lines.

At Sidney, plant No. C-2, the wooden barriers located above the racks in front of the forebay were rebuilt in removable sections in order to facilitate work during ice trouble. One main turbine and the exciter turbine were thoroughly overhauled.

At Frankford, plant No. C-5, two of the main turbines were thoroughly overhauled.

At Meyersburg, plant No. C-8, all turbines were inspected but no major repairs were found necessary. The high-tension oil breakers were all overhauled. A three-phase directional power relay was installed on one of the 44,000-volt line oil breakers.

At Ranney Falls, plant No. C-10, the turbines were inspected but no major repairs were found necessary. High resistance contacts developed between the interconnecting straps and the windings of the field poles on both generators at this plant. One generator was completely dismantled and thoroughly overhauled, but only temporary repairs were made on the second machine.

The 44,000-volt oil breakers, and the electrolytic lightning arresters were overhauled. A three-phase directional power relay was installed on one of the 44,000-volt line oil breakers.

At Seymour, plant No. C-11, the forebay was unwatered, and the racks were cleaned. All turbines were inspected but no extensive maintenance was found necessary.

At Heely Falls, plant No. C-14, the turbines, relief valves, etc., were all thoroughly inspected, but only minor repairs were found necessary. The racks in front of the penstocks were inspected and cleaned by a diver. All generators were given a thorough overhauling, which included the removal, testing and painting of field coils, replacement of defective plywood collars, and providing new insulation between the coils and the iron when the field coils were replaced. Damaged or defective armature coils were replaced, new wedges and insulation installed in the slots, and the armature sprayed with an insulating varnish. Before this work was completed, grounds developed in three of the field coils of one generator, thereby short-circuiting a portion of the field and giving rise to serious unbalanced magnetic forces which sheared the dowel pins and bent the holding bolts of the outer generator bearing pedestal, distorted the dowel pins of the inner generator bearing, and sheared the dowel pins and distorted the bolts holding the stator to the bed plate. Before this machine could be brought to rest the pole tips of the rotor came in contact with the stator and damaged a section of the iron laminations. Fortunately, the shaft was not bent or damaged. Repairs were undertaken and the machine was returned to service on July 2. Defective 44,000-volt disconnecting switches were replaced on one of the transformer banks. A new 60-cell storage battery and suitable rack was installed.

At Auburn, plant No. C-18, all turbines and governors were completely overhauled. As a result of repeated coil failures, due to deterioration of the insulation following 25 years of service, complete replacement of the stator windings and partial replacement of the stator iron laminations in two 625-kv-a, 6,600-volt generators was carried out by the manufacturer. Special lightning arresters were installed for the protection of the above two generators. A new private telephone switchboard was installed for the purpose of facilitating work in connection with the operation of the various plants in that district.

At Fenelon Falls, plant No. C-30, the main turbines and the exciter turbine were overhauled.

At Calabogie generating station on the Madawaska river, a broken turbine shaft was replaced. The lower section of the outside concrete wall of one of the wheel-pits was badly eroded and leaking. This section was removed and the wall rebuilt. The output capacity of this plant was increased by approximately 600 horsepower by the excavation of a ridge in the tail race. The stringers and platform on the north branch dam were renewed and guard rails installed. The stringers over the entrance to the log chute were renewed. All the high-tension and low-tension oil breakers and electrolytic lightning arresters were overhauled.

At High Falls generating station on the Mississippi river all electrical equipment was thoroughly inspected. The cores were removed from the tanks of the three high-tension transformers and the windings and tanks were thoroughly cleaned and the oil completely changed. The windings and rotors of all five generators were thoroughly cleaned and painted. A number of wedges and some of the slot insulation were replaced. The turbine cases and generator frames were all cleaned and painted. The generator field rheostats were all overhauled. The high-tension and low-tension oil breakers and the electrolytic lightning arresters were overhauled.

At Carleton Place generating station on the Mississippi river all stop logs in the spare wheel pit were replaced. The upper guide bearings on each turbine were re-babbited.

At Brockville distributing station, due to increased load demand, the 750-kv-a transformer was replaced with a 1,500-kv-a, three-phase, 44,000/2,400-volt transformer, which was placed in service on September 26. The capacity of this station is now 3,000-kv-a.

At Cornwall transformer station the 110,000-volt and 44,000-volt oil breakers were overhauled. All the 110,000-volt disconnecting switches were reinforced. A double garage was erected on the station property and the station site improved by the planting of flowering shrubs.

At Carleton Place distributing station a second 750-kv-a transformer was placed in service on November 15, 1936. The capacity of this station is now 1,500 kv-a.

At Cataraqui, owing to increasing load demand, a new out-door rural station was built. The three 100-kv-a transformers which formerly served this station were replaced by three 250-kv-a transformers.

At Frontenac transformer station eight defective 44,000-volt bushings were replaced on the three 5,000-kv-a transformers and the 15,000-kv-a regulating transformer. The 44,000-volt oil breaker was overhauled.

At Lyn distributing station, due to increased load demand, the three 100-kv-a transformers were replaced by three single-phase, 250-kv-a, 44,000/4,800-volt transformers.

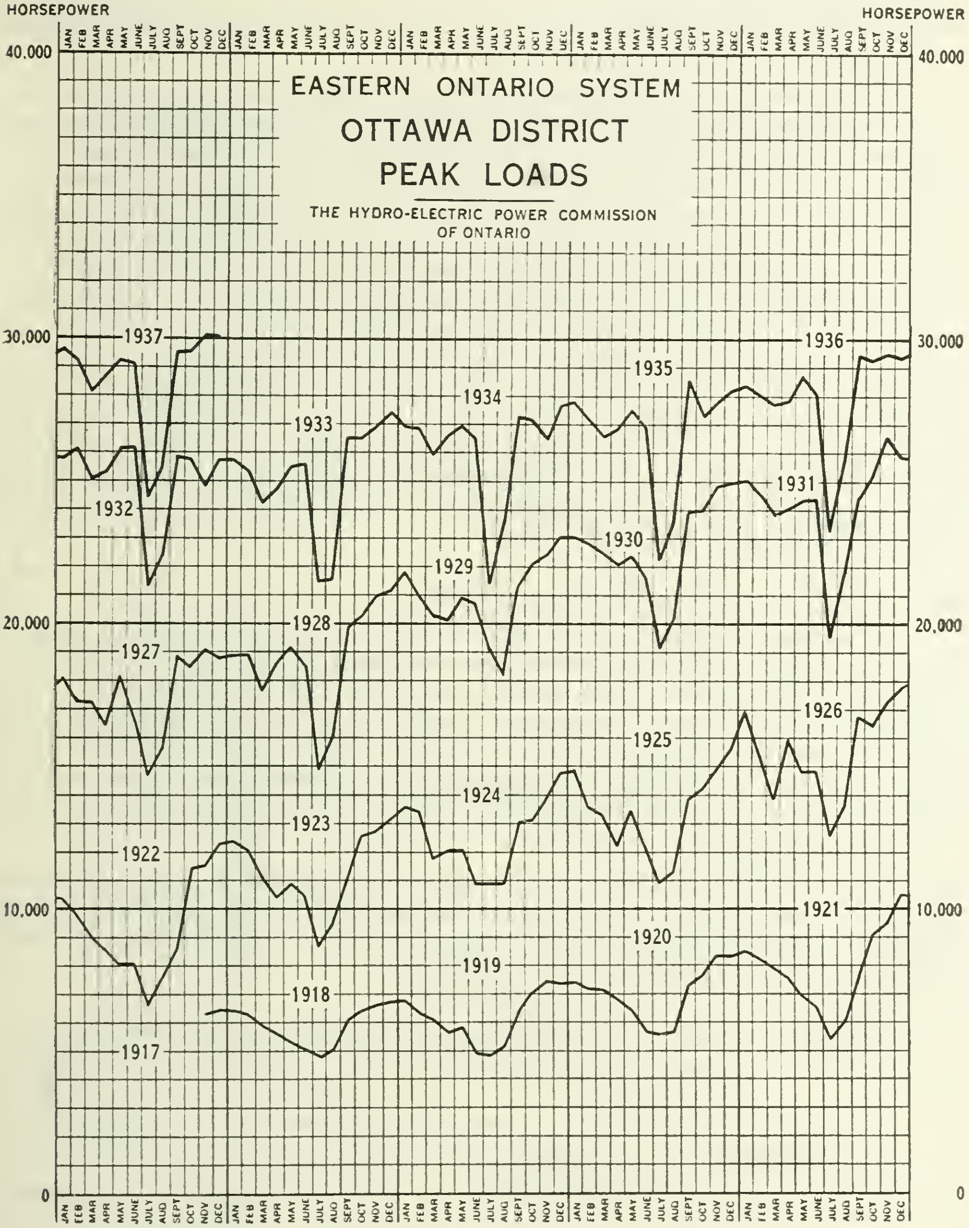
At Madoc distributing station two defective 44,000-volt roof inlet bushings were replaced. Four defective 44,000-volt disconnecting switches were replaced. The high-tension and low-tension oil breakers were overhauled.

At Martintown distributing station the tank of the 150-kv-a transformer was leaking badly and was replaced. The transformer was given a thorough overhauling at this time.

At Oshawa No. 1 distributing station a new out-door steel structure was erected and the low-tension feeders were re-arranged. The high-tension and low-tension oil breakers were all overhauled.

At Ottawa rural station a second bank of three 200-kv-a transformers was placed in service on October 24, bringing up the capacity of this station to 1,200 kv-a.

At Smiths Falls transformer station general improvements were carried out on the station property. A new culvert was installed replacing the old bridge into the station. Defective timbers were replaced on the station high-tension structures. The high-tension and low-tension oil breakers were overhauled. A number of insulators were replaced on the bus structures. The 110,000-volt



disconnecting switches were overhauled. A new 120-volt station storage battery and battery rack was installed.

At Renfrew distributing station the high-tension and low-tension oil breakers and the electrolytic lightning arresters were all overhauled. Two new sets of 6,600-volt feeder disconnecting switches were installed and defective 6,600-volt cable replaced.

At Smiths Falls distributing station a new 26,000-volt air-break switch was erected on a new pole structure on the station property. The high-tension and low-tension oil breakers and the electrolytic lightning arresters were all overhauled.

The inspection and maintenance of high-voltage transmission lines was actively carried out during the year. 633 poles were stubbed and 64 poles were replaced due to rot at the ground line. Sand creosote collars were installed on 4,842 poles. Approximately 1,100 defective 44,000-volt pin-type insulators were replaced. A number of poles were relocated at different points on the system as a result of highway changes. Approximately 48 miles of rural line were erected. Routine maintenance work was carried out, including straightening poles, replacing defective crossarms and pins, adjusting guys, tightening bolts, etc. Tree trimming, weed cutting and underbrushing was carried out on numerous high-voltage and low-voltage line sections. For sectionalizing purposes at Cataraqui and Napanee rural stations, 44,000-volt gang-operated line disconnecting switches were installed. In order to eliminate as far as possible a source of radio interference originating with the operation of single-pole, 44,000-volt, line disconnecting switches, gang-operated air-break switches were installed at six sectionalizing points on the 44,000-volt line between Brighton and Bowmanville.

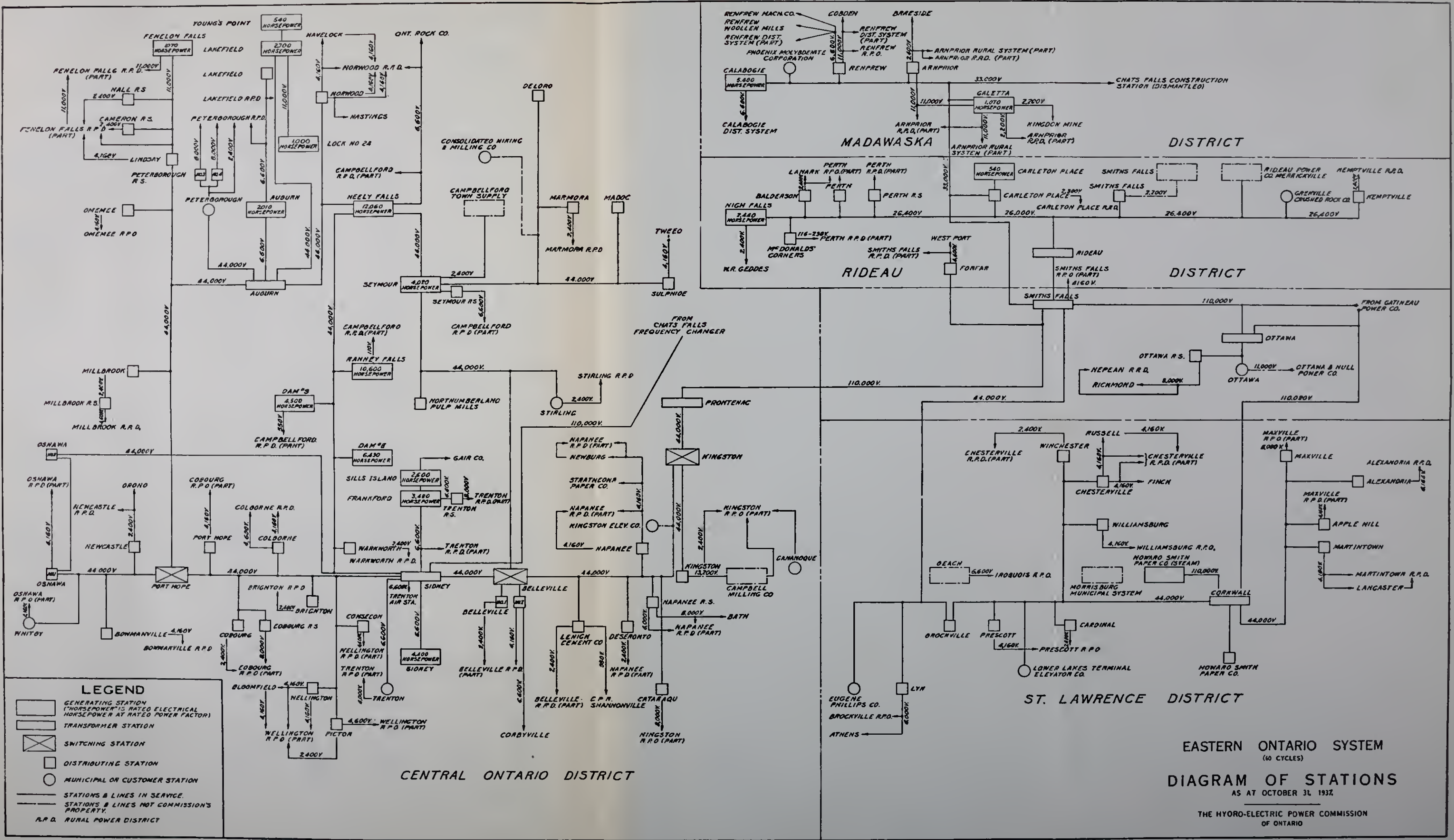
Meter Department and Repair Shops, Belleville

An extensive program of field work was carried out by the Meter department. This department is responsible for the operation and maintenance of all metering and relay equipment on the system and also for the checking into service of all new electrical equipment installed. Special tests relating to radio and telephone interference, ground conductivity and voltage conditions were made at numerous points on the system. The services of this department are available to any municipality wishing to have electrical measurements made or technical problems investigated.

The Belleville machine and meter repair shop continued to test and repair service meters for municipal and rural systems. 3,361 meters were repaired and 2,585 new meters handled. Over 300 samples of insulating oil from the field were tested during the year.

EASTERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES—1935-36-37

Municipality	Peak load in horsepower			Change in load 1936-1937	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Alexandria	207.1	205.3	195.7	9.6	....
Apple Hill	31.9	36.2	35.0	1.2	....
Athens	77.7	102.1	78.8	23.3	....
Bath	27.8	26.8	31.0	....	4.2
Belleville	4,235.0	5,092.0	5,037.0	55.0	....
Bloomfield	76.5	86.6	93.8	....	7.2
Bowmanville	1,765.8	1,972.3	2,188.1	....	215.8
Brighton	274.0	284.2	323.0	....	38.8
Brockville	2,628.6	2,991.9	3,206.3	....	214.4
Cardinal	154.1	180.8	251.3	....	70.5


LEGEND
GENERATING STATION ("HORSEPOWER" IS RATED ELECTRICAL HORSEPOWER AT RATED POWER FACTOR)
TRANSFORMER STATION
SWITCHING STATION
DISTRIBUTING STATION
MUNICIPAL OR CUSTOMER STATION
STATIONS & LINES IN SERVICE.
STATIONS & LINES NOT COMMISSION'S PROPERTY.
R.P.D. RURAL POWER DISTRICT
CENTRAL ONTARIO DISTRICT
YOUNG'S POINT
540 HORSEPOWER
FENELON FALLS
1070 HORSEPOWER
LAKEFIELD
2,700 HORSEPOWER
HAVELOCK
ONT. ROCK CO.
FENELON FALLS R.P.D. (PART)
11,000V
HALL R.S.
2,400V
CAMERON R.S.
FENELON FALLS R.P.D. (PART)
4,160V
LINDSAY
LAKEFIELD R.P.D.
PETERBOROUGH R.P.D.
1,000 HORSEPOWER
LOCK NO 24
NORWOOD R.P.D.
NORWOOD
HASTINGS
6,600V
PETERBOROUGH R.S.
PETERBOROUGH
AUBURN
2,010 HORSEPOWER
CAMPBELLFORD R.P.D. (PART)
HEELY FALLS
12,060 HORSEPOWER
DELORO
CONSOLIDATED MINING & MILLING CO
CAMPBELLFORD TOWN SUPPLY
MARMORA
MADOC
MARMORA R.P.D.
TWEED
OMEMEE
OMEMEE R.P.D.
44,000V
SEYMOUR
4,020 HORSEPOWER
SEYMOUR R.S.
CAMPBELLFORD R.P.D. (PART)
SULPHIDE
CAMPBELLFORD R.P.D. (PART)
RANNEY FALLS
10,600 HORSEPOWER
FROM CHATS FALLS FREQUENCY CHANGER
MILLBROOK
MILLBROOK R.S.
MILLBROOK R.P.D.
DAM No 9
4,500 HORSEPOWER
CAMPBELLFORD R.P.D. (PART)
NORTHUMBERLAND PULP MILLS
STIRLING R.P.D.
STIRLING
110,000V.
FRONTENAC
OSHAWA
DAM No 8
6,430 HORSEPOWER
GAIR CO.
SILLS ISLAND
2,600 HORSEPOWER
FRANKFORD
3,480 HORSEPOWER
TRENTON R.S.
TRENTON R.P.D. (PART)
NAPANEE R.P.D. (PART)
NEWBURG
STRATHCONA PAPER CO.
KINGSTON
OSHAWA R.P.D. (PART)
ORONO
COBOURG R.P.D. (PART)
NEWCASTLE R.P.D.
COLBORNE R.P.D.
PORT HOPE
COLBORNE
NEWCASTLE
WARKWORTH
WARKWORTH R.P.D.
TRENTON R.P.D. (PART)
NAPANEE R.P.D. (PART)
KINGSTON ELEV. CO.
NAPANEE
KINGSTON R.P.D. (PART)
GANANOQUE
KINGSTON 13,200V.
CAMPBELL MILLING CO
OSHAWA
PORT HOPE
BRIGHTON R.P.D.
BRIGHTON
SIDNEY
TRENTON AIR STA.
BELLEVILLE
NAPANEE R.S.
BATH
NAPANEE R.P.D. (PART)
OSHAWA R.P.D. (PART)
WHITBY
BOWMANVILLE
BOWMANVILLE R.P.D.
COBOURG
COBOURG R.S.
COBOURG R.P.D. (PART)
CONSECON
WELLINGTON R.P.D. (PART)
TRENTON R.P.D. (PART)
TRENTON
SIDNEY
4,400 HORSEPOWER
BELLEVILLE R.P.D. (PART)
LEHIGH CEMENT CO
DESERONTO
NAPANEE R.P.D. (PART)
BELLEVILLE R.P.D. (PART)
C.P.R. SHANNONVILLE
CATARAQUI
KINGSTON R.P.D. (PART)
BLOOMFIELD
WELLINGTON
WELLINGTON R.P.D. (PART)
PICTON
WELLINGTON R.P.D. (PART)
CORBYVILLE
MADAWASKA DISTRICT
RENFREW MACH. CO.
RENFREW WOOLLEN MILLS
RENFREW DIST. SYSTEM (PART)
PHOENIX MOLYBDENITE CORPORATION
COBDEN
RENFREW DIST. SYSTEM (PART)
RENFREW R.P.D.
RENFREW
BRAESIDE
ARNPRIOR RURAL SYSTEM (PART)
ARNPRIOR R.P.D. (PART)
ARNPRIOR
CALABOGIE
5,400 HORSEPOWER
33,000V
CHATS FALLS CONSTRUCTION STATION (DISMANTLED)
GALETTA
1,070 HORSEPOWER
KINGDON MINE
ARNPRIOR R.P.D. (PART)
CALABOGIE DIST. SYSTEM
ARNPRIOR R.P.D. (PART)
ARNPRIOR RURAL SYSTEM (PART)
RIDEAU DISTRICT
LANARK
PERTH R.P.D. (PART)
PERTH
PERTH R.P.D. (PART)
PERTH R.S.
BALDERSON
540 HORSEPOWER
CARLETON PLACE
SMITHS FALLS
RIDEAU POWER CO. MERRICKVILLE
KEMPTVILLE R.P.D.
CARLETON PLACE
SMITHS FALLS
GRENVILLE CRUSHED ROCK CO.
KEMPTVILLE
HIGH FALLS
2,440 HORSEPOWER
CARLETON PLACE R.P.D.
26,400V
McDONALDS' CORNERS
PERTH R.P.D. (PART)
W.R. GEDDES
SMITHS FALLS R.P.D. (PART)
WESTPORT
FORFAR
RIDEAU
SMITHS FALLS R.P.D. (PART)
SMITHS FALLS
110,000V
FROM GATINEAU POWER CO.
OTTAWA
OTTAWA R.S.
NEPEAN R.P.D.
RICHMOND
OTTAWA
OTTAWA & HULL POWER CO.
ST. LAWRENCE DISTRICT
CHESTERVILLE R.P.D. (PART)
WINCHESTER
RUSSELL
CHESTERVILLE R.P.D. (PART)
CHESTERVILLE
FINCH
WILLIAMSBURG
WILLIAMSBURG R.P.D.
MAXVILLE R.P.D. (PART)
MAXVILLE
ALEXANDRIA R.P.D.
ALEXANDRIA
MAXVILLE R.P.D. (PART)
APPLE HILL
MARTINTOWN
MARTINTOWN R.P.D.
LANCASTER
BEACH
IROQUOIS R.P.D.
MORRISBURG MUNICIPAL SYSTEM
HOWARD SMITH PAPER CO. (STEAM)
CORNWALL
BROCKVILLE
PRESCOTT
CARDINAL
PRESCOTT R.P.D.
LOWER LAKES TERMINAL ELEVATOR CO.
HOWARD SMITH PAPER CO.
EUGENE PHILLIPS CO.
LYN
BROCKVILLE R.P.D.
ATHENS

EASTERN ONTARIO SYSTEM
(60 CYCLES)

DIAGRAM OF STATIONS
AS AT OCTOBER 31, 1937.

THE HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO

EASTERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES, 1935-36-37—Concluded

Municipality	Peak load in horsepower			Change in load 1936-1937	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Carleton Place	1,288.8	1,257.3	1,406.8	....	149.5
Chesterville	230.5	245.0	232.5	12.5	....
Cobden	53.6	60.3	57.1	3.2	....
Cobourg	1,396.8	1,423.5	1,769.4	....	345.9
Colborne	133.5	148.1	148.8	....	0.7
Deseronto	131.8	135.4	141.6	....	6.2
Finch	53.5	59.7	63.4	....	3.7
Hastings	85.9	87.0	92.5	....	5.5
Havelock	117.5	146.8	155.6	....	8.8
Kemptville	290.8	361.9	330.4	31.5	....
Kingston	6,478.5	7,512.3	8,228.7	....	716.4
Lakefield	233.7	256.0	268.1	....	12.1
Lanark	74.8	82.3	84.0	....	1.7
Lancaster	47.2	44.0	37.7	6.3	....
Lindsay	1,913.0	2,170.0	2,172.4	....	2.4
Madoc	161.0	165.4	167.1	....	1.7
Marmora	93.3	101.7	113.3	....	11.6
Martintown	25.3	32.8	29.2	3.6	....
Maxville	87.1	83.6	91.8	....	8.2
Millbrook	66.5	57.9	66.8	....	8.9
Napanee	1,043.6	1,095.9	1,186.3	....	90.4
Newburg	40.1	35.9	36.1	....	0.2
Newcastle	109.1	109.6	155.5	....	45.9
Norwood	95.2	93.2	92.5	0.7	....
Omemee	128.8	137.7	123.8	13.9	....
Orono	76.7	92.0	70.2	21.8	....
Oshawa	12,690.2	11,391.4	14,889.7	....	3,498.3
Ottawa	26,869.9	28,751.7	28,970.6	....	218.9
Perth	1,254.1	1,364.0	1,428.9	....	64.9
Peterborough	7,140.3	7,700.0	9,633.7	....	1,933.7
Picton	864.3	925.7	984.0	....	58.3
Port Hope	1,358.4	1,319.7	1,570.1	....	250.4
Prescott	758.1	890.0	889.9	0.1	....
Richmond	45.5	41.5	46.5	....	5.0
Russell	42.4	46.9	53.1	....	6.2
Smiths Falls	1,626.1	1,765.3	2,018.0	....	252.7
Stirling	257.3	255.3	251.3	4.0	....
Trenton	2,985.3	3,029.6	3,405.1	....	375.5
Tweed	162.7	194.6	225.2	....	30.6
Warkworth	63.8	70.7	67.0	3.7	....
Wellington	177.4	178.4	216.7	....	38.3
Westport	69.9	77.2	87.1	....	9.9
Whitby	966.5	991.9	1,097.8	....	109.9
Williamsburg	236.8	218.5	165.9	52.6	....
Winchester	234.8	265.3	258.0	7.3	....

EASTERN ONTARIO SYSTEM—LOADS OF NEW MUNICIPALITY

Municipality	Date connected	Load in horsepower		Change in load	
		Initial	Oct. 1937	Decrease	Increase
Frankford	Oct. 1, 1937	75.0	75.0	....	....

EASTERN ONTARIO SYSTEM—RURAL POWER DISTRICT LOADS, 1935-36-37

Rural power district	Peak load in horsepower			Change in load 1936-1937	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Alexandria	33.2	35.3	52.5	....	17.2
Arnprior	39.0	54.0	54.0	....	....
Belleville	347.4	391.7	444.9	....	53.2
Bowmanville	112.2	114.7	133.5	....	18.8
Brighton	23.3	23.3	24.7	....	1.4
Brockville	325.8	340.5	472.1	....	131.6
Campbellford	57.7	81.0	99.5	....	18.5
Chesterville	199.1	269.3	350.5	....	81.2
Cobourg	303.0	325.6	387.0	....	61.4
Colborne	92.0	107.7	137.4	....	29.7
Fenelon Falls	122.8	165.6	254.3	....	88.7
Iroquois	453.0	502.7	536.2	....	33.5
Kemptville	25.0	26.8	27.3	....	0.5
Kingston	408.0	527.6	632.8	....	105.2
Lakefield	47.2	62.1	64.8	....	2.7
Marmora	....	1.5	1.5	....	....
Martintown	69.4	73.3	88.7	....	15.4
Maxville	170.8	197.7	230.5	....	32.8
Millbrook	45.4	52.0	65.6	....	13.6
Napanee	219.5	256.1	311.6	....	55.5
Nepean	635.4	762.8	885.8	....	123.0
Newcastle	66.9	63.4	67.2	....	3.8
Norwood	24.4	22.0	38.0	....	16.0
Omemee	4.8	5.0	5.0	....	....
Oshawa	821.6	903.1	1,009.0	....	105.9
Perth	25.8	32.6	43.3	....	10.7
Peterborough	456.0	500.8	505.5	....	4.7
Prescott	138.0	134.2	158.3	....	24.1
Renfrew	24.1	66.0	78.0	....	12.0
Smiths Falls	176.1	234.9	267.9	....	33.0
Stirling	51.7	49.6	61.0	....	11.4
Trenton	238.1	107.6	138.4	....	30.8
Warkworth	3.6	3.8	13.8	....	10.0

EASTERN ONTARIO SYSTEM—NEW RURAL POWER DISTRICT LOADS

Rural power district	Date connected	Load in horsepower		Change in load	
		Initial	Oct. 1937	Decrease	Increase
Sulphide	July 1, 1937	7.7	17.3	....	9.6

THUNDER BAY SYSTEM

The primary load on the Thunder Bay system during 1937 showed a gradual increase over the preceding year. As in 1936, the market for secondary power (used by the paper mills for the generation of steam) was great enough to use more than the remaining available generating capacity for the major portion of the time. Therefore, arrangements were in force during the whole year whereby the paper mills under control of the Abitibi Power and Paper Company were permitted to obtain a further secondary power supply from the system of the Kaministiquia Power Company (which is a subsidiary of the Abitibi Power and Paper Company), through the Commission's transformers and over the Commission's transmission circuits. This arrangement was similar to that in force for a few months of the previous year. Other customers for secondary power were restricted to some extent during peak load periods.

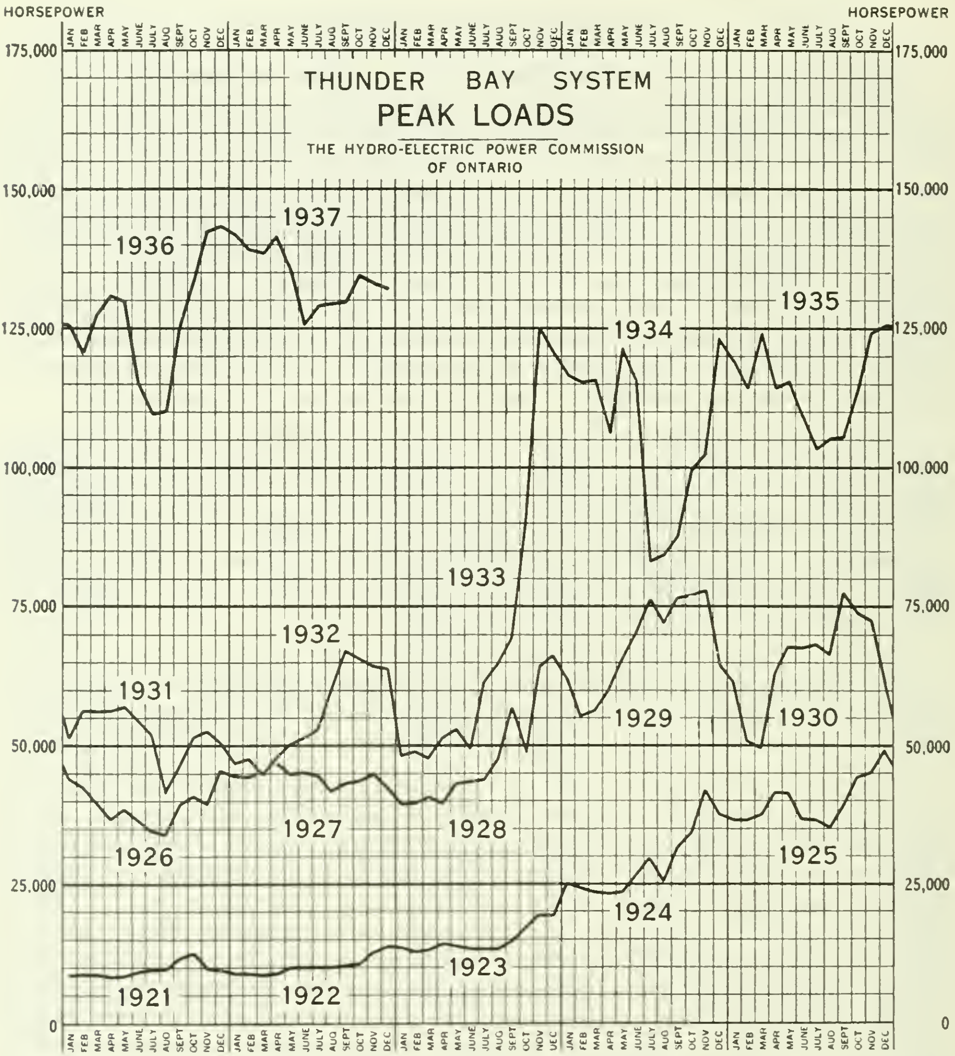
Eight new customers were added to the system during the year. These are Hard Rock Gold Mines, Bankfield Consolidated Gold Mines, Sturgeon River Gold Mines, Town of Geraldton, Town of Beardmore, Jellicoe Consolidated Gold Mines, Tombill Gold Mines and MacLeod-Cockshutt Gold Mines. Power is supplied to these customers at 44,000 volts. In addition to these, a small amount of power has been supplied to the Lake Sulphite Pulp Company for use in constructing its new mill at Red Rock.

There has been no restriction of primary power supply to any customer, and no serious interruptions to service. It has been necessary on occasions to restrict the secondary load demands of customers for short periods in order to carry the system load with satisfactory frequency and voltage regulation.

The generating and transformer stations have all functioned reliably and satisfactorily throughout the year. During the period May 16 to June 23, No. 4 generator unit at Cameron Falls generating station was out of service in order to allow the eroded areas on the turbine blades to be repaired by welding. Routine maintenance work on the other units at this station, and those at Alexander generating station, has been done as opportunity offered; that is, when the load permitted individual units being temporarily released from service. Maintenance work has been carried out on the power transformers and oil circuit breakers at the generating stations, and also at Port Arthur and Fort William transformer stations. New sensitive protection against internal faults was installed on each of the 8,000-kv-a transformers at Cameron Falls generating station, the installation being completed on April 4. A new 60-cell storage battery was placed in service at Fort William transformer station on March 6.

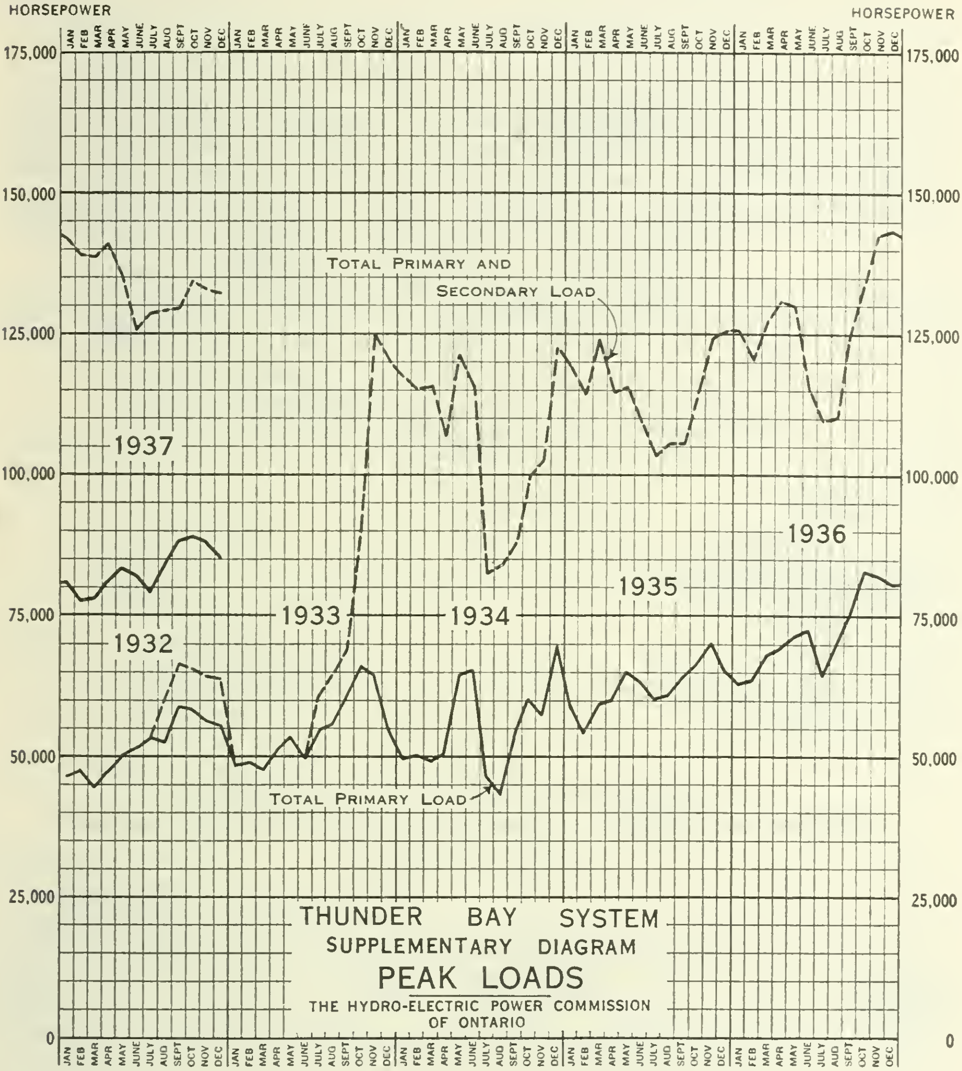
Very little trouble has been encountered with the 110,000-volt transmission lines. A number of flashovers have occurred during electrical storms, causing interruptions of short duration to one or more customers. There have been two occasions—on July 3 for 3½ minutes, and on August 8 for 1½ minutes, during electrical storms—when service to all customers has been interrupted. Special attention has again been given to the testing of insulators and the replacement of those found defective, and to the maintenance of poles and conductors.

During the early part of the year the Commission purchased the 44,000-volt lines from the Northern Empire Mines and the Little Long Lac Gold Mines.



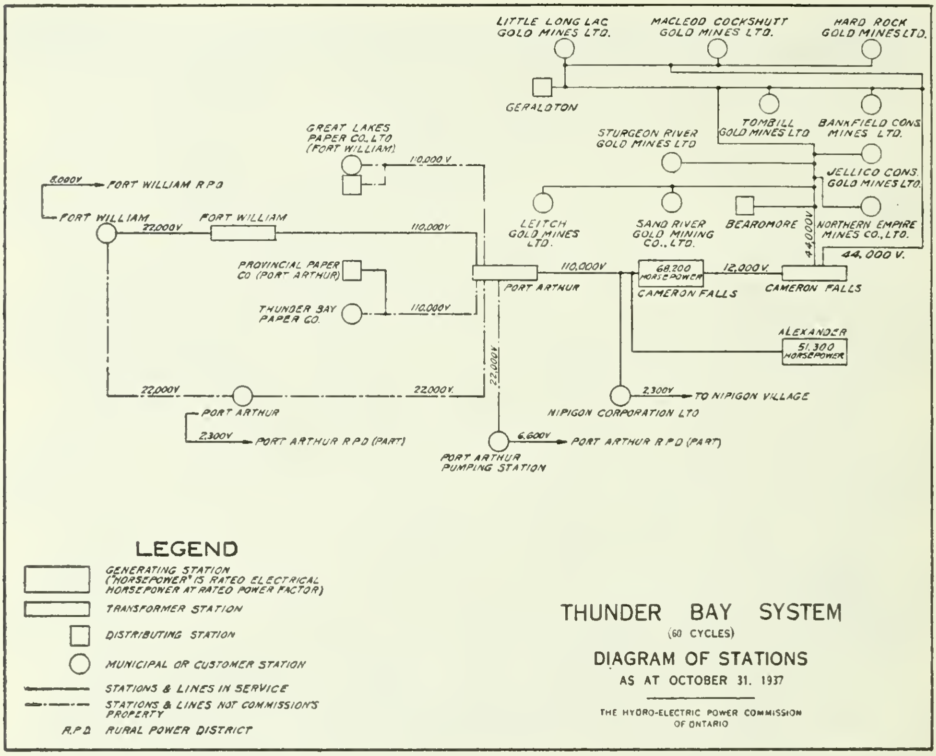
These lines have been in service since 1933 and 1934 respectively. A new line was built from Cameron Falls generating station to the Little Long Lac area. This line is constructed for 110,000-volt service, but is now being used at 44,000 volts, the section from Cameron Falls to Empire being energized on January 14, and that from Empire to Little Long Lac on March 22. There have been a number of occasions on which service to the customers supplied by these lines has been interrrupted due to trees falling over the line and highway blasting operations. Further clearing of trees along the right-of-way is being carried on, and with the completion of the highway, it is hoped that better service will be obtained from these lines during the ensuing year.

The precipitation in the watershed supplying this system has been above average, 29.5 inches being recorded. The elevation of lake Nipigon on October 31 was reported as 852.14, compared with 851.3 for the same time last year.



THUNDER BAY SYSTEM—LOADS OF MUNICIPALITIES, 1935-36,-37

Municipality	Peak load in horsepower			Change in load 1936-1937	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Fort William	10,740.0	10,678.3	11,265.4	....	587.1
Nipigon Township	112.5	124.6	161.07	....	36.47
Port Arthur	34,396.3	42,407.2	40,964.7	1,442.5	....


LITTLE LONG LAC GOLD MINES LTD.
MACLEOD COCKSHUTT GOLD MINES LTD.
HARD ROCK GOLD MINES LTD.
GERALDTON
TOMBILL GOLD MINES LTD
BANKFIELD CONS MINES LTD.
STURGEON RIVER GOLD MINES LTD
JELLICO CONS. GOLD MINES LTD.
GREAT LAKES PAPER CO. LTD (FORT WILLIAM)
110,000 V
8,000V
FORT WILLIAM R.P.D
FORT WILLIAM
22,000V
FORT WILLIAM
110,000V
LEITCH GOLD MINES LTD.
SAND RIVER GOLD MINING CO., LTD.
BEARDMORE
44,000V
NORTHERN EMPIRE MINES CO., LTD.
44,000 V.
PROVINCIAL PAPER CO (PORT ARTHUR)
110,000V
PORT ARTHUR
68,200 HORSEPOWER
CAMERON FALLS
12,000V.
CAMERON FALLS
THUNDER BAY PAPER CO.
110,000V
ALEXANDER
51,300 HORSEPOWER
22,000V
22,000V
22,000V.
2,300V
TO NIPIGON VILLAGE
NIPIGON CORPORATION LTD
PORT ARTHUR
2,300V
PORT ARTHUR R.P.D (PART)
6,600V
PORT ARTHUR R.P.D (PART)
PORT ARTHUR PUMPING STATION
LEGEND
GENERATING STATION ("HORSEPOWER" IS RATED ELECTRICAL HORSEPOWER AT RATED POWER FACTOR)
TRANSFORMER STATION
DISTRIBUTING STATION
MUNICIPAL OR CUSTOMER STATION
STATIONS & LINES IN SERVICE
STATIONS & LINES NOT COMMISSION'S PROPERTY
R.P.D RURAL POWER DISTRICT
THUNDER BAY SYSTEM
(60 CYCLES)
DIAGRAM OF STATIONS
AS AT OCTOBER 31, 1937
THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

THUNDER BAY SYSTEM—LOADS OF NEW MUNICIPALITIES, 1935-36-37

Municipality	Date connected	Load in horsepower		Change in load	
		Initial	Oct. 1937	Decrease	Increase
Beardmore	June 12, 1937	42.9	59.0	....	16.1
Geraldton	Feb. 28, 1937	199.7	345.8	....	146.1

THUNDER BAY SYSTEM—RURAL POWER DISTRICT LOADS, 1935-36-37

Rural power district	Peak load in horsepower			Change in load 1936-1937	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Fort William	111.2	130.0	155.5	....	25.5
Port Arthur	47.0	49.6	54.3	....	4.7

MANITOULIN DISTRICT

Operation of the Manitoulin district throughout the year was satisfactory. Three total district interruptions totalling 1 hour 51 minutes were required by the Manitoulin Pulp Company to permit inspection, repair and adjustment of their generating equipment, one interruption of 1 hour 12 minutes duration was required to install Commission equipment, and four automatic interruptions totalling 61 minutes were caused by lightning disturbances.

On November 2, 1936, a new lightning arrester was installed on one phase of the outgoing line at Kagawong distributing station to replace the one which had failed and had been removed from service on October 11, 1936.

MANITOULIN RURAL POWER DISTRICT LOADS, 1935-36-37

Rural power district	Peak load in horsepower			Change in load 1936-1937	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
Manitoulin	113.9	138.4	136.7	1.7	....

NORTHERN ONTARIO PROPERTIES

Nipissing District

Operation

Water storage and river flow conditions were satisfactory up until the early part of August, when rapid depletion of storage reserves commenced as a result of subnormal precipitation over the South river watershed for the previous two months. To retard this depletion a supply of power from the Crystal Falls generating station of the Sudbury district was obtained over a seven-day period in September, but this supply was discontinued in order to permit necessary rehabilitation of a section of the tie-line over which the power was being transferred. Towards the latter part of October, precipitation conditions improved and a gain in storage reserves resulted, but conditions were such at the end of the year that unless abnormal precipitation and an open winter is experienced, it will be necessary to obtain additional power from Crystal Falls to supplement that obtainable from the Nipissing district plants, before the spring break-up in 1938.

Operation of the district throughout the year was in general quite satisfactory. North Bay and Callander customers experienced five service interruptions, totalling thirty minutes, as a result of lightning disturbances on the 22,000-volt lines; service to Powassan was interrupted once for one minute from the same cause. All other service interruptions were prearranged and were for the purpose of permitting maintenance of equipment.

On July 20, a new rural station at the easterly limits of North Bay consisting of three 100-kv-a transformers and associated switching equipment was placed in service. The North Bay distribution system voltage is stepped up at this station from 2,400 to 8,000 for transmission at the latter voltage throughout the rural district in the township of Ferris. This rural district had previously been served at 2,400 volts direct from the North Bay distribution system, but poor voltage regulation due to increased rural load made the change to a higher voltage level necessary.

Maintenance

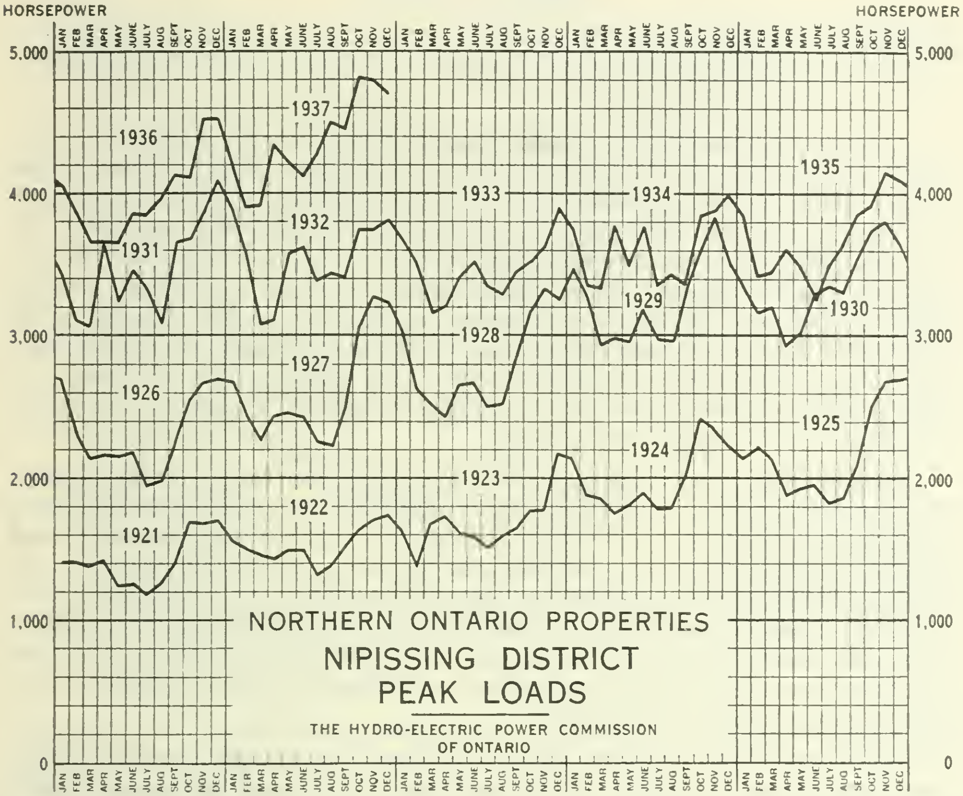
At Nipissing generating station the regular tests and inspections were carried out on the electrical, mechanical and hydraulic equipment, and the necessary minor adjustments and repairs made. The pothead on the generator end of the 2,200-volt cable from No. 1 generator failed and was replaced. Two insulators on the 22,000-volt switching structure and three bushings on the 22,000-volt line breaker were shattered by lightning and replaced. The power-house floor was painted. The top surface of the wood-stave pipe was brush coated with solignum, one hundred steel plates with tarred felt pads were placed over leaky butt joints, six benches were renewed and 42 moved to permit of treatment of decay of the pipe under the benches. Some grading was done on the pipe line sub-grade and the ditches cleaned out. The necessary gravelling of the roads on the property was done. The railing on the road bridge over the pipe line was renewed.

At Bingham Chute generating station the regular tests and inspections were carried out, during which the No. 1 positive exciter cable and No. 2 negative field cable were found defective and were replaced. Three coils in No. 1 generator failed and were cut out pending a decision on rewinding the machine. The 22,000-volt lightning arrester was revarnished and the power-house floor painted. The wood-stave pipe line was brush-coated with solignum, the ditches were cleaned out and all vegetation removed from pipe line grade. About 22 cubic yards of earth were placed on the dam between head block and sluices, and 8 cubic yards of rock removed from the walls of the pipe line cut. A new tool house was built on the dam.

At Elliott Chute generating station the regular tests and inspections were carried out on plant structures and equipment. The storage battery and charger were overhauled and reconditioned. The 22,000-volt lightning arrester was varnished and the power-house floor painted. The bands on the wood-stave pipe were tightened and the exterior of the pipe brush-coated with solignum and the grades cleaned of weeds. About 40 cubic yards of gravel and 16 cubic yards of rip-rap were placed on the dam and the drainage wells cleaned out. All weeds were cut on the property as required and about 1,900 square feet of site near dam was graded, levelled and cultivated. The construction, cookery and bunk-house were sold and removed.

The regular tests and inspections of structures and equipment were carried out and everything found in good condition. Minor repairs were made where required and necessary painting done.

Thirty-eight insulators, which were broken by stones and rifle bullets, were replaced. Tests revealed 226 defective insulators on line sections FZ52x3, FZ3x61 and FZ61x4; these will be replaced as soon as load conditions permit


NORTHERN ONTARIO PROPERTIES
NIPISSING DISTRICT
PEAK LOADS
THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

these lines to be taken out of service for that purpose. Forty-eight poles were stubbed and seventeen equipped with sand-creosote collars on the 22,000-volt lines. Sixteen poles, twelve guys and six crossarms were renewed on the 2,200-volt line from Nipissing generating station to Nipissing village.

The double-circuit 22,000-volt line from Crystal Falls to Sturgeon Falls junction was reconditioned after purchase from the Abitibi Power and Paper Company, and an inventory taken of the line.

On the Sturgeon Falls Junction-North Bay line certain underbrushing was done, three head guys and one anchor were installed, and four poles reset. Underbrushing and tree trimming were done on lines between Bingham Chute junction and North Bay, and four poles and one guy stub replaced.

At Braie Lake dam rock-filled cribs were erected on each side of the sluiceway upstream. Six new stop logs were provided at Clear and Surprise dams. At Craig Lake dam about 182 cubic yards of rock were placed on the downstream side and at Sausage dam 15 cubic yards of gravel were placed on the upstream side. The necessary work was done on the roads into the storage dams, nine culverts being replaced, 260 feet of corduroy road rebuilt and some hills cut down.

The Gurley gauge at Gough's Bridge was removed to a new location downstream from the Nipissing generating station.

Sudbury District

Operation

Water storage and river flow conditions were satisfactory throughout the year.

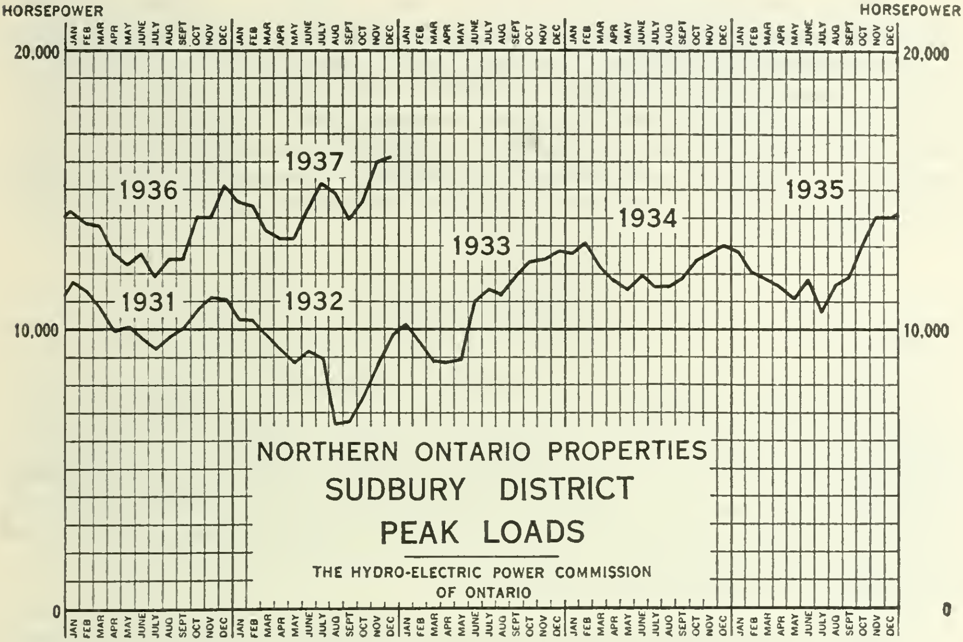
Operation of the district was in general satisfactory throughout the year. Failure of 22,000-volt oil circuit-breaker bushings in Sudbury distributing station, due to lightning, resulted in a short interruption of service to Sudbury on two occasions. On September 11 trouble on a 22,000-volt line, which developed during a severe electrical storm, resulted in an interruption of service to Sudbury and Capreol for approximately five hours. On numerous occasions during the summer blasting on highway construction in the vicinity of the 22,000-volt tie-line between Stinson and Coniston generating stations made it advisable to remove this line from service. The resulting loss of capacity on these occasions made it necessary to curtail the supply of power to the International Nickel Company at Coniston.

As the Sudbury district load trend indicated that the available capacity at the three generating stations on the Wanapitei river could be insufficient to handle satisfactorily the 1937-38 winter peak loads, a new wood-pole transmission line was constructed between the Coniston generating station on the Wanapitei river and the Crystal Falls generating station on the Sturgeon river, so that a supply of power from the latter station would be available to supplement that generated by the Wanapitei river generating stations. This new line, although still partially incomplete, was tested and found satisfactory for emergency operation on August 28.

On August 5 the Crystal Falls generating station was acquired by the Commission from the Abitibi Power and Paper Company, and as most maintenance work at this station had been deferred for several years, a staff was immediately placed at work in the station to undertake such rehabilitation as was necessary to place all equipment in condition satisfactory for the operation of the station as a unit of the Sudbury district.

Maintenance

At Coniston generating station the regular tests and inspections were carried out and the necessary repairs and adjustments made. On No. 1 turbine, a broken gate was welded and a worn gate-link bolt replaced. On No. 2 turbine a worn wrist pin and a broken drain-valve operating cable were replaced. A larger pulley was installed on the governor oil-pump drive, and the oil pump adjusted; adjustments were made to the governor head drive and a new set of bevel gears ordered. On No. 3 turbine the lignum vitae bearing was renewed and the upstream bearing adjusted; adjustments were made to the governor to overcome faulty action. On No. 3 generator chattering and vibration developed in a section of the lamination due to slack in the pressure plate; the necessary repairs were made and the unit is under close observation for a recurrence of the trouble. The No. 3 motor-driven exciter was overhauled and fitted with new brushes. The voltage regulator was cleaned and adjusted and one 22,000-volt oil breaker was overhauled. The roofs of the penstock building, transformer house, garage, warehouse and summer kitchen of boarding house were painted with Liquigum and repaired where necessary. The headgates and structure, the wood sheathing of the forebay walls and dam piers and outdoor switching



structure were painted with solignum. The racks at forebay entrance were rebuilt and the boarding-house roof repaired. A small office was built in the transformer building.

On September 11 an excessively heavy rain—over four inches precipitation—destroyed two culverts and washed out several sections of the road from the highway to the plant, and did some damage to roads, etc., in the colony. The culverts were replaced with larger ones and other necessary repairs made.

At McVittie generating station the regular tests and inspections were made. New lignum vitae bearings and wrist pins were installed in each of the main turbines and a new lignum vitae bearing in the exciter turbine. A broken gear on No. 2 governor oil pump was repaired by welding and returned to service. A ground-detector device was installed on the d.c. bus. A leak developed under the east wing of the back-channel dam. The water in the forebay was lowered, the leak dug out, sheet piling installed, supported by rock fill on downstream side and puddled with clay on the up-stream side.

At Stinson generating station the regular tests and inspections were made. The repairs and rehabilitation following the fire of September 10, 1936, were completed, and as these comprised a complete overhaul of structures and equipment, practically no maintenance other than a few minor repairs was required.

Following the purchase of the Crystal Falls generating station, a thorough inspection was made and a program of overhaul and maintenance initiated to bring this property up to standard. When considered necessary, immediate repairs or alterations were made, but it is intended to bring the plant up to standard during the coming year.

Routine patrolling and maintenance were carried out during the year. A number of insulators broken by stones and rifle bullet were replaced. The Stinson-Coniston 22,000-volt line was badly damaged by blasting during highway construction. Temporary repairs were made as the work progressed but the damage was so severe that it has been found necessary to restring more than a mile of the line and replace a number of poles and numerous insulators, pins, crossarms, etc. Highway improvements necessitated the relocation of a number of poles on the Wanapitei lake telephone line near Falconbridge.

Abitibi District

Operation

The available capacity of the Abitibi Canyon generating station was limited throughout the year by the installed power transformer capacity which permitted the simultaneous use of only three of the five generators. As a result of performance tests which were conducted on the generators, the nominal rating of 55,000 horsepower each, which has been used in previous reports, has been changed to 60,000 horsepower, giving the plant a present total rating of 180,000 horsepower. Normal procedure throughout the year has been to operate continuously with three units in service.

Stream flow conditions were satisfactory throughout the year for primary load purposes, but during January, February and the latter part of December, the total demand for secondary power for steam generation could not be met at times because of lack of sufficient river flow.

Operation of the Abitibi Canyon generating station was satisfactory throughout the year.

There were sixteen single-circuit and ten double-circuit automatic outages of the high-tension line between Abitibi Canyon and Copper Cliff during the year, of which all double-circuit outages and eleven single-circuit outages were due to electrical storms. Of the remaining single-circuit outages, two were due to causes external to the lines and three to unknown causes.

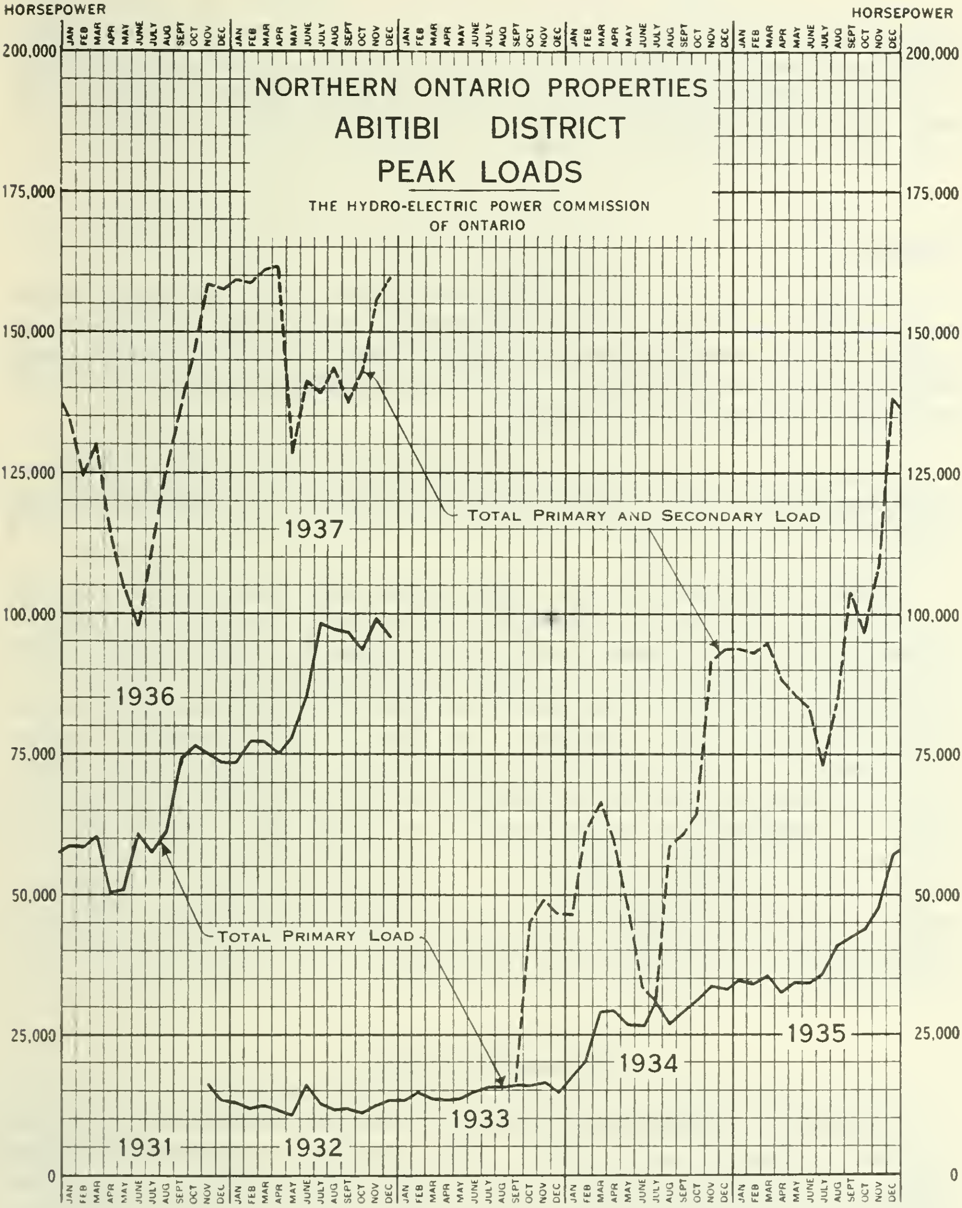
There were thirteen single-circuit automatic outages on the Abitibi Canyon to Kirkland Lake, Matachewan and Larder Lake high-tension lines, of which six were due to electrical storms, three to severe winds, one to a falling tree, one to a line defect and two to causes external to the lines.

The above outages were all of short duration except in one instance when failure of a high-tension line switch at Kirkland Lake transformer station, on January 22, while switching to clear a defective line, prolonged an interruption to Kirkland Lake customers to a total of two hours and one minute.

On January 3, 1937, a newly-completed section of single-circuit 132,000-volt wood-pole line between Tisdale junction (about six miles north of Timmins) and Pamour transformer station was placed in service.

All transformer stations operated satisfactorily throughout the year.

On January 3 a new 4,500-kv-a outdoor type, 132,000/27,200-volt station at Pamour was placed in service, and on January 15 an additional 1,500-kv-a,



13,200 27,200-volt transformer for use as a spare at either Pamour or Timmins transformer stations was made available for service.

On December 22, 1936, a pole-type 75-kv-a distributing station serving domestic consumers of the King Kirkland townsite was placed in service.

Low-tension feeders constructed to serve new customers were placed in service as follows:—in the Timmins area—Porcupine Lake Gold Mines on

November 1, 1936, Moneta Porcupine Mines on January 19, 1937, Delnite Mines on February 28, 1938, Buffalo Ankerite on July 26, 1937, and Mace Gold Mines on August 20, 1937; in the Kirkland Lake area—Continental Kirkland on April 25, 1937, and Golden Gate on June 5, 1937; and in the Larder Lake area—Kir-Vit Gold Mines on July 5, 1937, and Kerr Addison on October 29, 1937.

Maintenance

The regular tests and inspections were carried out at the Canyon generating station, maintenance consisting of minor repairs and adjustments. A washout of some considerable proportions on the east side of Eleanor Creek and about one mile north-east of the Canyon generating station was investigated and a measuring weir installed.

At the various transformer stations the maintenance consisted of minor adjustments and repairs to structures and equipment. The regular tests and inspections were carried out.

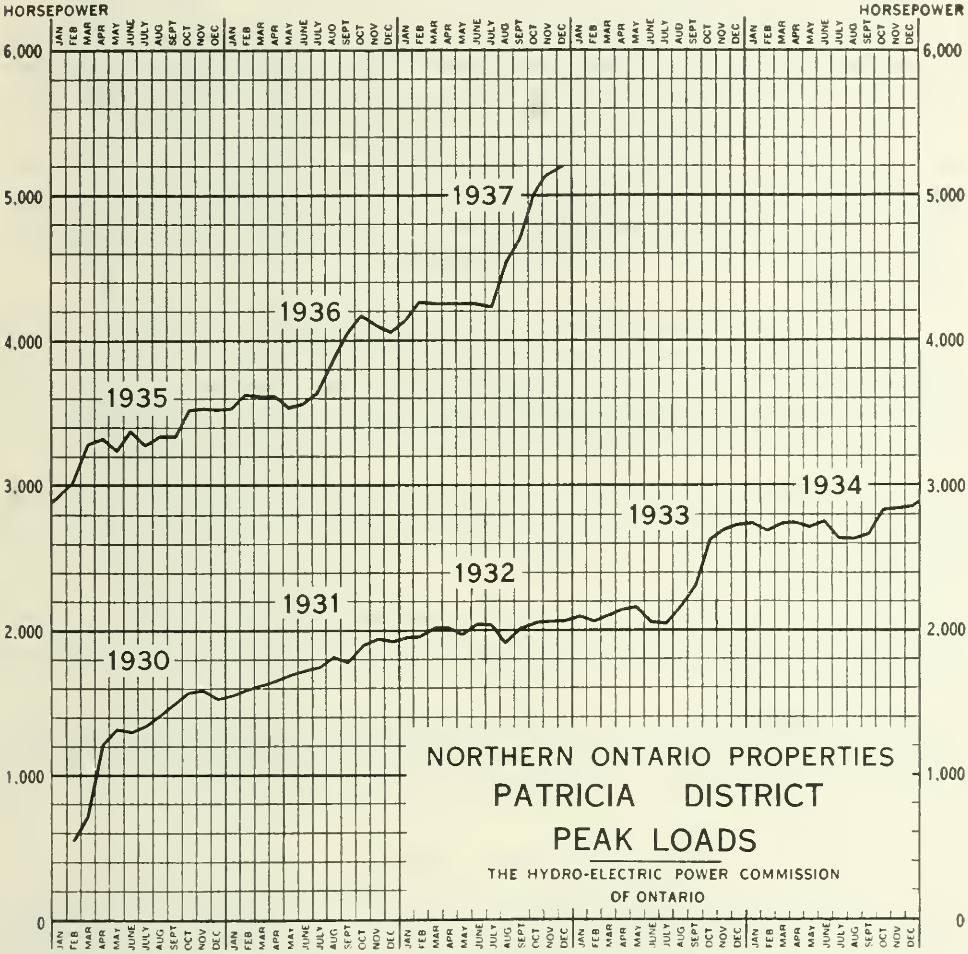
In the transmission lines the regular patrols and inspections were carried out. Damaged insulators were replaced, the necessary brush cutting done and ground line treatment applied to a number of poles. A number of poles broken by motor cars were replaced and others moved on account of highway construction. On the Iroquois Falls-Kirkland Lake line, the ground wire on the first circuit broke due to vibration on January 27, 1937. Temporary repairs were made at once and during the summer pole-top extensions were installed, the ground wire resagged at lower tension and festoons installed. On the second circuit the stringing tensions of the ground wire were lower, consequently the line was equipped with festoons only. On the telephone line from Hunta to Copper Cliff, the spruce poles used on a large part of the line had decayed so badly at the ground line that it was necessary to cut off and reset or replace the majority of them. This work was not completed but will be continued in the coming year.

Espanola District

Service to the sole customer on this district, the McMillan Gold Mines, Limited, was discontinued on May 1, 1937, when the company abandoned all mining and milling operations. Prior to that date operation of the Commission's 33,000-volt line between Espanola generating station and the customer's property was entirely satisfactory.

Patricia District

The generating and transformer station at Ear Falls on the English river has operated satisfactorily throughout the year. The load on the system has been higher than in 1936, the average monthly energy generated being 18.1 per cent



greater, and the average monthly peak 17.5 per cent greater than in the previous year. The maximum yearly 20 minute peak shows an increase of 19.9 per cent over last year.

Two new customers were added to the system during the year. The Gold Eagle Gold Mines station was made alive on January 26, power being supplied over a short section of 44,000-volt line tapped off the line to McKenzie Red Lake Gold Mines. The mill at Gold Eagle Gold Mines commenced operation on October 13. Power was supplied on July 21 to Madsen Red Lake Gold Mines over a 44,000-volt transmission line about six miles in length, which is connected to the main line near the Howey Gold Mines. This power has been used for mining and development purposes only.

An additional generator rated at 4,500-kv-a with associated auxiliaries was placed in service at Ear Falls generating station on June 28. Another transformer bank, consisting of three 1,500-kv-a units with necessary connections, was also placed in service at this station on August 15.

Subsequent to No. 2 generator being placed in operation at Ear Falls generating station, No. 1 unit, which had been in continuous service since December, 1929, was shut down and repairs made to the turbine and draft tube.

On January 18, failure of the belt driving the pilot exciter of the No. 1 generator resulted in an interruption to customers of 1 hour and 18 minutes. By arrangement with the customers, service was interrupted on June 20 and August 15 for about four hours each time, and on October 15 for 55 minutes, all for work in connection with the installation of No. 2 generator and transformer bank.

The 44,000-volt transmission line, which is owned by the Howey Gold Mines, Limited, has functioned satisfactorily, and has been operated and maintained for this company under the same cost arrangement as in previous years. The sections of 44,000-volt transmission line which are owned by the various other mining companies have also given satisfactory service.

There were no interruptions during the year which can be directly attributed to the transmission lines. Failure of a transformer bushing at McKenzie Red Lake Mines on May 3 resulted in an interruption of 2 minutes to all customers.

The flow in the English river has been regulated and controlled by means of the Lac Seul conservation dam at Ear Falls as required by the Lake-of-the-Woods Control Board.

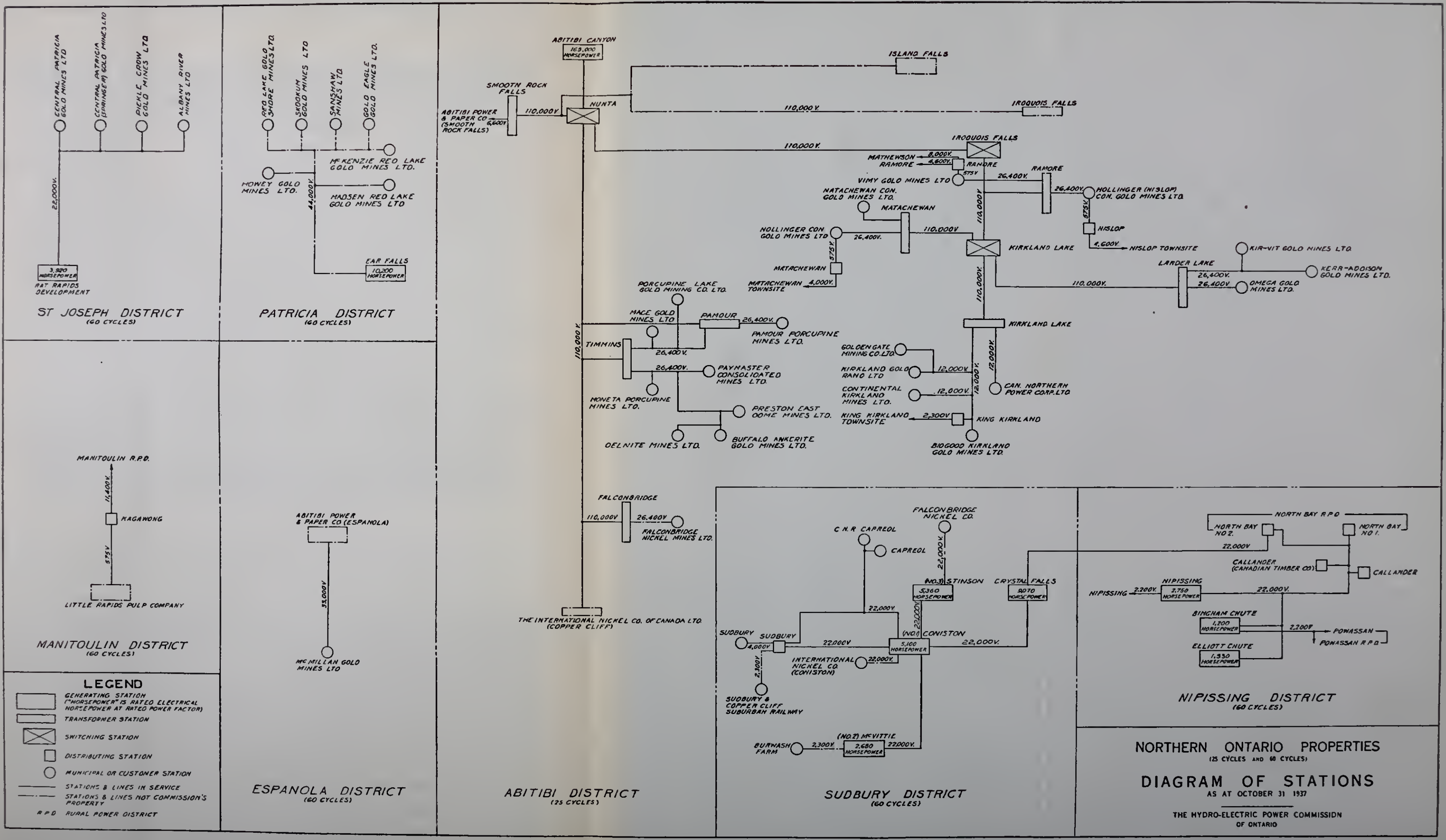
The precipitation in the vicinity of Ear Falls has been below average, about 20.6 inches being recorded. The elevation of Lac Seul on October 31 was 1,170.65 as compared with 1,169.0 at the same date last year.

St. Joseph District

The load on this system shows a large increase. However, comparisons between 1937 and the previous year should take into consideration the fact that the second generator was placed in service on October 8, 1936, increasing the available capacity. The average monthly energy generated was 69.6 per cent greater, and the average monthly peak was 76.4 per cent greater than in the previous year. The maximum yearly 20-minute peak shows an increase of 74.4 per cent over last year.

One new customer was added to the system during the year, the Albany River Gold Mines station being made alive on December 5, 1936. This station is supplied over a short section of 22,000-volt transmission line from Pickle Crow Gold Mines. Power was used for mining and development work only. A second 750-kv-a transformer bank was installed at Pickle Crow Gold Mines in February, and in April an extension to this company's mill was placed in service.

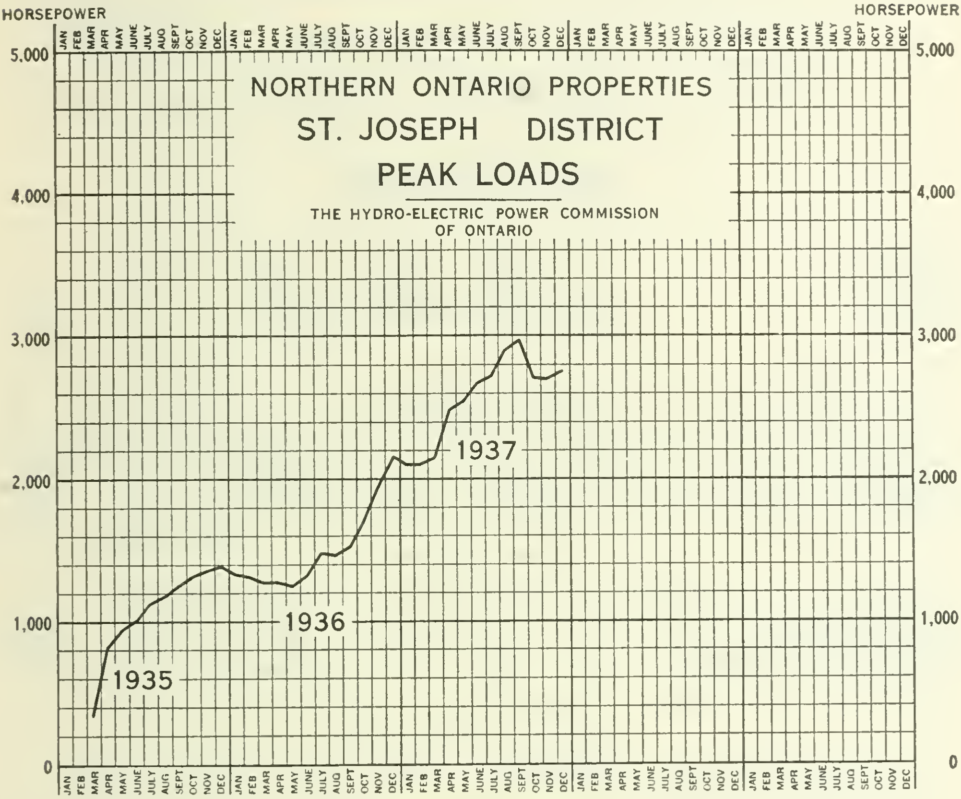
All electrical and hydraulic equipment has functioned satisfactorily during the year. By arrangement with the customers, No. 1 and No. 2 generators and associated equipment were taken out of service in turn during the period September 5 to 7 for inspection and general maintenance. The load on the


CENTRAL PATRICIA GOLD MINES LTD
CENTRAL PATRICIA (SPRINGER) GOLD MINES LTD
PICKLE CROW GOLD MINES LTD
ALBANY RIVER MINES LTD
22,000V.
3,920 HORSEPOWER
RAT RAPIDS DEVELOPMENT
ST JOSEPH DISTRICT (60 CYCLES)
RED LAKE GOLD SHORE MINES LTD
SKOOKUM GOLD MINES LTD
SANSHAW MINES LTD
GOLD EAGLE GOLD MINES LTD.
McKENZIE RED LAKE GOLD MINES LTD.
HOWEY GOLD MINES LTD.
44,000V.
MADSEN RED LAKE GOLD MINES LTD
EAR FALLS
10,200 HORSEPOWER
PATRICIA DISTRICT (60 CYCLES)
ABITIBI CANYON
165,000 HORSEPOWER
SMOOTH ROCK FALLS
ABITIBI POWER & PAPER CO (SMOOTH ROCK FALLS)
6,600V
110,000V
HUNTA
ISLAND FALLS
110,000V.
IROQUOIS FALLS
110,000V.
IROQUOIS FALLS
MATHESON
8,000V.
RAMORE
4,600V.
RAMORE
575V
VIMY GOLD MINES LTD
26,400V.
RAMORE
26,400V.
HOLLINGER (HISLOP) CON. GOLD MINES LTD
MATACHEWAN CON. GOLD MINES LTD.
MATACHEWAN
HOLLINGER CON GOLD MINES LTD
26,400V.
110,000V
110,000V
575V.
HISLOP
4,600V.
HISLOP TOWNSITE
MATACHEWAN
575V.
MATACHEWAN TOWNSITE
4,000V.
KIRKLAND LAKE
KIR-VIT GOLD MINES LTD
LARDER LAKE
26,400V.
KERR-ADDISON GOLD MINES LTD.
110,000V.
26,400V
OMEGA GOLD MINES LTD.
110,000V.
PORCUPINE LAKE GOLD MINING CO. LTD.
MACE GOLD MINES LTD
PAMOUR
26,400V.
PAMOUR PORCUPINE MINES LTD.
TIMMINS
110,000V.
26,400V.
26,400V.
PAYMASTER CONSOLIDATED MINES LTD.
MONETA PORCUPINE MINES LTD.
PRESTON EAST DOME MINES LTD.
DELNITE MINES LTD.
BUFFALO ANKERITE GOLD MINES LTD.
KIRKLAND LAKE
GOLDEN GATE MINING CO. LTD.
KIRKLAND GOLD RAND LTD
12,000V.
CONTINENTAL KIRKLAND MINES LTD.
12,000V.
12,000V.
12,000V.
CAN. NORTHERN POWER CORP. LTD
KING KIRKLAND TOWNSITE
2,300V
KING KIRKLAND
BIDGOOD KIRKLAND GOLD MINES LTD.
FALCONBRIDGE
110,000V
26,400V
FALCONBRIDGE NICKEL MINES LTD.
THE INTERNATIONAL NICKEL CO. OF CANADA LTD. (COPPER CLIFF)
ABITIBI DISTRICT (25 CYCLES)
MANITOULIN R.P.D.
11,400V.
KAGAWONG
575V
LITTLE RAPIDS PULP COMPANY
MANITOULIN DISTRICT (60 CYCLES)
ABITIBI POWER & PAPER CO (ESPANOLA)
33,000V
McMILLAN GOLD MINES LTD
ESPANOLA DISTRICT (60 CYCLES)
FALCONBRIDGE NICKEL CO.
C N.R CAPREOL
CAPREOL
22,000V.
(NO.3) STINSON
5,360 HORSEPOWER
CRYSTAL FALLS
9,070 HORSEPOWER
22,000V
22,000V
SUDBURY
SUDBURY
4,000V
22,000V
(NO.1) CONISTON
5,100 HORSEPOWER
22,000V.
INTERNATIONAL NICKEL CO. (CONISTON)
22,000V.
2,300V
SUDBURY & COPPER CLIFF SUBURBAN RAILWAY
(NO.2) McVITTIE
BURWASH FARM
2,300V
2,680 HORSEPOWER
22,000V.
SUDBURY DISTRICT (60 CYCLES)
NORTH BAY R.P.D.
NORTH BAY NO 2.
NORTH BAY NO 1.
22,000V
CALLANDER (CANADIAN TIMBER CO)
CALLANDER
NIPISSING
NIPISSING
2,200V.
2,750 HORSE POWER
22,000V.
BINGHAM CHUTE
1,200 HORSEPOWER
2,200V
POWASSAN
POWASSAN R.P.D.
ELLIOTT CHUTE
1,330 HORSEPOWER
NIPISSING DISTRICT (60 CYCLES)
LEGEND
GENERATING STATION ("HORSEPOWER" IS RATED ELECTRICAL HORSEPOWER AT RATED POWER FACTOR)
TRANSFORMER STATION
SWITCHING STATION
DISTRIBUTING STATION
MUNICIPAL OR CUSTOMER STATION
STATIONS & LINES IN SERVICE
STATIONS & LINES NOT COMMISSION'S PROPERTY
R P D RURAL POWER DISTRICT

NORTHERN ONTARIO PROPERTIES
(25 CYCLES AND 60 CYCLES)

DIAGRAM OF STATIONS
AS AT OCTOBER 31 1937

THE HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO



system was restricted to the capacity of the respective generators during this period.

The 22,000-volt single-circuit transmission line between the generating station and the mining customers has given very good service throughout the year. There were six outages of this circuit due to lightning, but no permanent damage resulted, and service over the line was immediately resumed. On two occasions No. 2 generator tripped off the system as a result of guy wires being broken and coming into contact with the power conductor. The line has been carefully inspected, poles straightened, guys tightened, and trees cut down where necessary along the right-of-way. Sand creosote collars were installed on 24 poles, and 105 pole butts were treated by the "Osmose" process. New telephone crossarms were installed on alternate poles in order to increase the clearance between the telephone conductors. This has largely eliminated the troubles which were formerly experienced with this communication circuit.

The precipitation in the vicinity of Rat Rapids was relatively high this year, approximately 24.5 inches being recorded. The elevation of lake St. Joseph on October 31 was 1,226.43 as compared with 1,225.42 for the same date last year.

NORTHERN ONTARIO PROPERTIES—LOADS OF MUNICIPALITIES, 1935-36-37

Municipality	Peak load in horsepower			Change in load 1936-1937	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
NIPISSING DISTRICT					
Callander	200.7	202.7	118.5	84.2	....
Nipissing	3.0	3.0	3.0	....	....
North Bay	3,215.1	3,297.3	3,724.5	....	427.2
Powassan	120.4	134.1	155.5	....	21.4
SUDBURY DISTRICT					
Capreol	132.0	155.5	162.2	....	6.7
Sudbury	4,505.3	5,764.1	6,427.6	....	663.5
ABITIBI DISTRICT					
Hislop Townsite	....	8.0	12.5	....	4.5
Matachewan Townsite	....	78.1	108.5	....	30.4
Ramore-Matheson Townsite	....	65.5	84.7	....	19.2

NORTHERN ONTARIO PROPERTIES—LOADS OF NEW MUNICIPALITIES

ABITIBI DISTRICT

Municipality	Date connected	Load in horsepower		Change in load	
		Initial	Oct. 1937	Decrease	Increase
King Kirkland (Townsite)	Dec. 20, 1936	13.4	24.2	....	10.8

NORTHERN ONTARIO PROPERTIES—LOADS OF RURAL POWER DISTRICTS, 1935-36-37

NIPISSING DISTRICT

Rural power district	Peak load in horsepower			Change in load 1936-1937	
	Oct. 1935	Oct. 1936	Oct. 1937	Decrease	Increase
North Bay	72.0	117.6	164.2	....	46.6
Powassan	3.25	9.0	9.25	....	0.25

SECTION III

MUNICIPAL WORK

THE Commission acts in an advisory capacity to the municipalities with which it has contracts, and assists the municipal officials to purchase, construct or extend distribution systems. As provided under *The Power Commission Act*, all rate adjustments are approved by the Commission, therefore, a study of the operating conditions of all utilities is made annually and adjustments recommended.

In rural power districts, the Commission on behalf of the township corporations operates the rural power systems, and distributes electrical energy to the customers of the respective corporations in all such rural power districts.

NIAGARA SYSTEM

During the year a contract was entered into with the Ottawa Valley Power Company for a supply of 96,000 horsepower for the Niagara system. The aggregate average load supplied to urban municipalities and rural power districts on this system during the year 1937, increased substantially.

The municipal load supplied showed an increase in 149 municipalities, a small decrease in 16 municipalities and in one municipality no change.

In the rural power districts 86 showed an increase in load.

Engineering Assistance to Municipalities

General engineering assistance was given to practically all municipalities in the Niagara system respecting the operation and management of their local Hydro utilities.

Certain municipalities received special engineering advice and assistance, which are more fully referred to below:

Ancaster Township—A by-law defining the boundaries of the area in which the Ancaster Township Hydro-Electric System would operate was passed and approved by the Commission. Some customers now served from the rural system will be transferred to the Township and a few being served over long extensions will be taken into the rural. The change will result in more economical operation for both systems. Arrangements are being made to change over to 25-cycle supply, those consumers who are receiving 66-2/3-cycle service.

Beamsville—Hydro by-laws were passed authorizing the purchase of the existing 66-2/3-cycle system from the Commission. The ownership was transferred on May 10, 1937. Beamsville is now one of the co-operating municipalities on the Niagara system.

Brampton—The pole lines on the main streets are being moved to lanes and private property in the rear. The greater part of the lines were erected in their new location at the end of the year.

Caledonia—Arrangements for changing the system from 2,200- to 4,000-volt operation have been completed. The change will be made early next year.

Clinton—An ornamental street-lighting system, comprising thirty-one standards equipped with 300-watt units, was installed in the business section of the town and all poles removed from the main street. In conjunction with this work, distribution circuits were re-located and rebuilt in order to give service from the rear of the buildings.

Dashwood—The distribution system was changed and the voltage supply raised from 4,000 to 8,000 volts. This was accomplished by using existing 2,300-volt transformers in pairs, connecting the primary in series and the secondary in parallel.

Forest Hill—Arrangements are being made to separate the local distribution system from that of York Township and for a power supply in part from the Toronto Hydro-Electric System, with the remainder from a new transformer station to be erected for the municipality.

Galt—The Commission, during the year, built a new pole line from Preston to Galt city limits, following a separate route.

The Galt Public Utilities Commission rebuilt some of its lines and as a result there is a complete separation of the two circuits for the entire distance. Larger conductor was installed on the new circuit. During 1938 the existing circuit will be rebuilt with wider spacing and larger conductor.

Goderich—The lighting of the commercial section, which is situated around the central park, was improved. Sixteen modern, two-light, ornamental standards equipped with two 300-watt lamps and eight one-light standards equipped with 500-watt lamps, were installed. These replaced units of an older type which will be moved to adjacent streets.

Kitchener—A third substation was constructed in the south ward. This is a section of the city which not only has important industries at the present time but also is the area that has been allotted for industrial building. A 13,200-volt overhead line was constructed by the local Commission from the high-tension station to the new substation.

The underground 13,200-volt cable which connects the Commission's high-tension station with Kitchener's No. 1 substation was duplicated.

Leamington—In order to supply increased demand for power in a manufacturing plant, the consumer constructed a 150-kv-a addition to its substation.

This substation had a capacity of 750 kv-a and transforms power from 26,400 volts to 4,000 volts for distribution throughout the plant.

London—Extensive changes were made in the distribution system. Street lighting regulators and other equipment were placed in Cabell Street station. Four 500 kv-a, 13,200/575-volt, three-phase transformers were removed from Horton Street station and placed adjacent to factory sites throughout the city.

Quite a large section of the city was changed from series to multiple street lighting during the year.

Merritton—A new substation on Clarke street was completed to serve heavy industrial loads in the immediate vicinity.

Milton—Pole lines have been erected in the rear of properties on the business portion of Main street to supply these properties, while the original line on the street has been replaced by an ornamental street-lighting system.

Mitchell—In co-operation with the Bell Telephone Company, all poles are being removed from two blocks on the main street in the business section. This necessitated the construction of lines at the rear of the properties.

Twenty-six ornamental street-lighting standards, equipped with 300-watt multiple lamps and the necessary underground cable and control equipment, were installed. This greatly improved the appearance of the commercial section of the street.

Rodney—To improve the lighting and appearance of its main street, estimates were prepared and plans submitted for an ornamental street-lighting system, providing for the removing of all poles and wires and placing them in the rear of the buildings. It is expected that this work will be undertaken early in the coming year.

St. Catharines—A new 12,000-volt line was constructed near the west boundary to complete a ring main and supply additional power to customers on Carlton street.

Seaforth—Ornamental street-lighting standards were installed for two blocks on the west side of the main street. The east side will be similarly treated during 1938.

Stratford—Transformers for supplying power to the City waterworks-pumping plant were purchased.

At the present time all local lines leave the municipal station overhead. During the year seven manholes and approximately 1,200 feet of underground duct system were constructed. Cable will be installed in 1938. When this is completed all poles adjacent to the municipal station will be removed.

Swansea—On October 9, 1937, the Hydro-Electric System in Swansea was taken over by the municipality and severed from the York Township system.

Tillsonburg—Due to increased load it was found necessary to increase the municipal station transformer capacity from three 250-kv-a to three

500-kv-a transformers. These are being placed outside the building. Other modernizing changes are being made in substation equipment to provide better and more efficient service.

Welland—Plans for additional station capacity have been prepared to provide power for industrial consumers.

Weston—The Weston Public Utilities Commission is erecting an outdoor 13,200/550-volt station at the plant of the Canada Cycle and Motor Company.

Windsor—In order to supply increased demand for power in a manufacturing plant, the Windsor Utilities Commission installed additional capacity in one of its substations. Arrangements were made to purchase from The Hydro-Electric Power Commission of Ontario the 26,400-volt lines within the city, as well as the substations of the old town of Sandwich and the city of East Windsor. Approval was obtained to construct 26,400-volt tie lines between these two aforementioned substations.

Woodstock—On account of the great increase in commercial lighting on the north side of Dundas street, in the business section of the city, it was found necessary to increase the transformer capacity and secondary for this section. To minimize interruptions to service and fire hazards, underground primary was installed.

Zurich—The distribution system was changed and the voltage supply raised from 4,000 to 8,000 volts. This was accomplished by using existing 2,300-volt transformers in pairs, connecting the primary in series and the secondary in parallel.

GEORGIAN BAY SYSTEM

Due to extensive load growth on the Georgian Bay system in recent years, with the total power demand last year close to the limit of the transmission and generating equipment capacity, several major changes were found necessary and undertaken during the year in the nature of rearrangement of transmission circuits and the construction of an additional power development. All of these were required to handle adequately the load requirements of the various municipalities and rural power districts. A new auto-transformer station was constructed at Fergusonvale, and the auto-transformer station at the Eugenia development increased in capacity. A new 38,000-volt transmission line was constructed and placed in operation between Waubaushene and Fergusonvale, and the voltage of the transmission line between Fergusonvale and the Eugenia development changed from 22,000 volts to 38,000 volts to provide for operating all tie transmission lines between the various generating plants at the higher voltage. Construction work was also started on a new 10,000-horsepower development at Ragged Rapids on the Musquash river and it is expected that this plant will be completed and placed in operation during 1938. The transmission lines for tying this new generating plant into the system transmission network at Waubaushene were arranged for, with construction deferred to coincide with the date on which the generating plant will be placed under load.

The highest peak recorded for the Georgian Bay system was established on August 10, and amounted to 32,755 horsepower. The total average load sold for the year amounted to 27,986 horsepower, an increase of 1,682 horsepower or 6.4 per cent over the previous year. Increased average loads were recorded in thirty-eight municipalities, out of a total of fifty-nine, and in thirty-nine rural power districts out of a total of forty-eight.

Assistance and general engineering advice was given to all of the fifty-nine municipalities comprising the Georgian Bay system in connection with the operation of their local distribution systems.

Special engineering advice and assistance was given to the following municipalities, chiefly with respect to the matters referred to:

Coldwater—The distribution system was changed from 2,200 to 4,000 volts, with a material improvement in regulation.

Gravenhurst—Plans are being prepared for the construction of a new municipal substation adjacent to the present office building and the conversion of the distribution system from two to three phase.

Huntsville—Extensive rehabilitation of the distribution system was carried out. All poles and wires were removed from the main street and ornamental street-lighting standards were installed in the business section.

Tara—The removal of all poles in the business section of the municipality and the installation of an ornamental street-lighting system was completed early in the year.

Waubaushene—The substation capacity was increased from 75 to 150 kv-a. The distribution system was changed from 2,200 to 4,000 volts and a separate rural feeder was erected.

Wingham—The Wingham Public Utilities Commission completed the remodelling of the office building purchased last year and is now enjoying the facilities of a modern office and showroom.

EASTERN ONTARIO SYSTEM

On the Eastern Ontario system there was a rapid increase in the municipal load during the year and extensive construction of lines in the rural districts resulted in a general increase in the power supplied to the rural areas. A severe shortage of power occurred in the late summer of 1936, owing to exceptionally low water flow on the Trent river, which was taken care of by use of a temporary connection with the Niagara high-tension lines and the use of a frequency changer at Chats Falls generating plant. Anticipating a considerable load increase this year and a possible recurrence of low water flow on the Trent river, the Commission decided to make a permanent connection between Trenton and Chats Falls and accordingly constructed during the summer a 110,000-volt line between these two points. Additional sources of power on the Trent river were secured by purchasing three plants from the Canada Cement Company in the vicinity of Lakefield in December, 1936, and the plant of the Quinte Valley Power Company at Frankford on October 1, 1937. These additional power sites, combined with exceptionally good water conditions on the Trent river, have made it unnecessary to take any large amounts of power through the new line and the frequency changer at Chats Falls.

General engineering assistance was given to practically all municipalities in the Eastern Ontario system, respecting the operation and management of their local Hydro utilities.

Certain municipalities received special engineering advice and assistance with regard to matters detailed below:

Kingston—The city of Kingston, up to the present time, has had a contract on a fixed rate. The contract having expired, the city has entered into a cost contract.

Millbrook—The corporation of Millbrook has opened negotiations with a view to purchasing power on a cost basis and taking over the ownership of the distribution system from the Commission. The negotiation and estimates are not yet concluded.

Morrisburg—Negotiations were continued and further estimates prepared in connection with supplying this municipality with 200 horsepower to supplement the output of the present generating plant.

Newboro—Estimates were prepared for this municipality showing the cost of power and the rates to be charged under a cost contract with the Commission.

Newburgh—The corporation of the village of Newburgh is considering the purchase of the distribution system in Newburgh from the Commission. Full information regarding this and estimates on the cost of power have been submitted to the municipality.

Newcastle—The electors of the village of Newcastle in January, 1937, voted in favour of the purchase of the local distribution system and of securing a supply of power at cost from the Commission. The necessary agreements have been entered into and the municipality now operates on a cost basis.

Peterborough—The Commission assisted the Peterborough Public Utilities Commission in obtaining tenders for the installation of an additional 1,500 kv-a transformer in the Peterborough transformer station. Owing to the rapid growth of load in Peterborough, plans are now being made and tenders received for a further installation of 3,000 kv-a in transformer capacity in this station.

THUNDER BAY SYSTEM

Although the previous year's operations on the Thunder Bay system recorded the most successful year in its history, the past year has shown continued progress in both load growth and operating revenue. The increase in the average primary load sold was 19.5 per cent over the previous year and the highest primary peak established during the year was 88,800 horsepower, an increase of 5,710 horsepower, or approximately 7 per cent. The greater increase in the average load sold is indicative of a much more extensive use of energy, the generating and transmission equipment having been operated at higher load factor, with a resultant improvement in system revenue. A large amount of power from this system is utilized by the grain trade for operating the terminal elevators at Port Arthur and Fort William, and the enormous reduction in the crop harvested in Western Canada during the past year naturally resulted in a severe curtailment in the power demand from the grain industry at the lake head ports. The continuous improvement in the pulp and paper industry, which consumes approximately 50 per cent of the present load supplied by the Thunder Bay system and had an average load increase in the neighbourhood of 25 per cent as compared with the previous year, and greater consumption by the mining industry in the Sturgeon river and Little Long Lac areas, which with six additional mines served had an average load increase of approximately 53 per cent over the previous year, more than offset the loss of load from the grain trade. For this reason, together with a general increase in the municipal and rural power district loads, the primary power demands of the Thunder Bay system are rapidly approaching the limit of the available generating capacity, and studies will be made immediately with respect to providing additional power development. Both the Cameron Falls and Alexander developments which constitute the source of power supply for the Thunder Bay system have been operated to maximum capacity throughout the year, all of the capacity not required for primary power purposes having been sold as temporary power for electric steam generation at various pulp and paper mills.

The new 110,000-volt transmission line between the Cameron Falls development and the Little Long Lac mining area, the construction of which was commenced last year, was completed and placed in operation at 44,000 volts pending the completion of a transformer station at its Long Lac terminus. This new transformer station of 4,500-kv-a capacity was designed and its equipment purchased. It will be completed and placed under load early next year. During the year the Commission completed the purchase of the original 44,000-volt transmission lines between Cameron Falls and the Little Long Lac mining area from the two mining companies jointly owning them. The Commission also completed the purchase of branch transmission lines from six other mining companies. In consequence of these transactions, all of the transmission lines in the mining area west of lake Nipigon are now owned and operated by the Commission.

A large block of power was purchased by the Commission during the year from the Kaministiquia Power Company to supplement the output of the Nipigon generating plants for the purpose of supplying the secondary power requirements for electric steam generation of the various pulp and paper mills.

A further reduction in rates, in addition to the one made last year, was authorized by the Commission in connection with power supply to the pulp and paper mills, the reduction being from $18.00 per horsepower per annum to $17.00 per horsepower per annum for power supplied at 110,000 volts, and from $19.50 per horsepower per annum to $18.50 per horsepower per annum for customers supplied at 22,000 volts. A further reduction in resale rates for domestic and commercial lighting and power consumers was authorized in Port Arthur, Fort William and Nipigon village, and these new rates were placed in effect during the year.

Assistance in the nature of general engineering advice concerning the operation of the local distribution systems was given to the cities of Port Arthur and Fort William, also to the village of Nipigon. Distribution systems were constructed and placed in operation during the year in the mining townsites of Beardmore and Geraldton. Both of these townsites are situated in unorganized townships, service being given to individual consumers by the Commission on behalf of the Thunder Bay system. The load and number of consumers served showed a considerable increase at the close of the year, although both of these distribution systems had only been in operation for approximately six months.

MANITOULIN RURAL POWER DISTRICT

A number of consumers were added to the existing lines and an extension constructed to serve Providence Bay. Both the peak load and the average yearly load have increased to such an extent that it was necessary to negotiate for an increased generating capacity which it is expected will be placed in operation early next year.

NORTHERN ONTARIO PROPERTIES

The Northern Ontario Properties is the name which has been given to the generating plants, transmission lines, transformer stations and distribution systems situated in the northern and north-western parts of the Province, which are held and operated by the Commission in trust for the Province of Ontario, as a distinct and separate unit from the co-operative systems in the southern and eastern parts of the province, which are operated by the Commission on a cost basis on behalf of the various municipalities.

Although most of the primary power in the various districts forming the Northern Ontario Properties is being utilized by operating mines, and mines under development, power is also being supplied for municipal purposes to two cities, three towns, six villages, townsites and hamlets, and two rural power districts. The remarkable increases in power consumption during the previous year have been repeated during the past year in both the municipal as well as the mining loads, the average load sold for mining purposes showing an increase of approximately 41 per cent over the previous year, ten new mining customers having been connected to the system and been given service during the year.

Engineering advice and assistance relative to power supply and operation of local distribution systems was given to the towns of Cochrane and Sioux Lookout, and information concerning power supply was given to various municipalities and mining properties not yet connected to any of the existing transmission systems in the northern part of the Province.

The activities in the various districts of the Northern Ontario Properties are detailed in the following paragraphs:

Nipissing District

This district covers the area served by three small hydro-electric developments on the South river, and includes the city of North Bay, the town of Powassan, and the village of Callander. The power supplied in this district is taken up wholly and entirely for municipal purposes and shows a slight increase over the previous year.

Sudbury District

This district includes the territory which lies in and around the city of Sudbury. Power from three hydro-electric developments on the Wanapitei river is supplied to the city of Sudbury, the town of Capreol, and the International Nickel and Falconbridge Nickel companies. The continued load growth in this district has created demands beyond the capacity of the existing generating plants and during the year the development originally constructed by the Abitibi Power & Paper Company at Crystal Falls on the Sturgeon river was acquired by the Commission and connected with the Wanapitei developments at Coniston through a 44,000-volt transmission line which is being temporarily operated at 22,000 volts. By this means an additional 5,000 horsepower was immediately made available. With 44,000-volt operation, 10,000 horsepower will be available. As the Crystal Falls development was already tied into the Nipissing district developments on the South river through a transmission line terminating at North Bay, studies were made with respect to amalgamating the Sudbury and Nipissing districts, by which means it would be possible to obtain a continuous transmission line network between all of seven generating plants and thereby combine the total generating capacity for the benefit of all consumers in both districts.

Arrangements were completed for extending distributing lines into the rural districts which lie immediately east, south and west of the city of Sudbury in McKim township and construction work was started at the close of the year. It is expected that this work will be completed and service given early in the new year. The possibility of constructing distributing lines and giving service to various portions of the united townships of Neelon and Garson, and the townships of Caldwell, Capreol, Blezard, Field, Hanmer and Rayside was carefully studied and construction of distributing lines in parts, if not all of these areas, will probably be undertaken during the coming year.

Engineering advice and general assistance was given to the local Commissions in Sudbury and Capreol in connection with the management and operation of their respective local distribution systems.

Abitibi District

This district consists of the area served by and within transmission distance of the Abitibi Canyon development inclusive of the mining districts of Porcupine, Shiningtree, Sudbury Basin, Matachewan, Kirkland Lake and Larder Lake. The remarkable load growth in this district which has taken place in previous years has been continued during the past year as a result of demands created by the increased production of existing mines, as well as by additional mining properties being served. There were eight new mining properties served in this district during the year and the increase in the average primary load was approximately 53 per cent over the previous year.

The 4,500-kv-a transformer station at Pamour and the branch 110,000-volt transmission line serving it was completed and placed in operation. The Timmins transformer station was increased from 4,500 kv-a to 9,000 kv-a by the addition of a second bank of transformers, and a spare 1,500-kv-a transformer was purchased and installed at the Matachewan station. Approximately 50 miles of 26,400-volt and 12,000-volt transmission lines were constructed in the Porcupine, Kirkland Lake and Larder Lake areas for the purpose of serving new mining properties connected in these districts during the year.

All of the mining properties under contract with the Commission, as well as most of the other properties in the development stage were visited on several occasions during the year for the purpose of rendering assistance and advice concerning power supply. As a result several new mining power contracts were obtained and others are still under negotiation.

The distribution systems in the mining townsites of Matachewan, Hislop and King Kirkland, also in the town of Matachewan and the village of Ramore, with service supplied direct by the Commission to the individual consumer, were successfully managed and operated during the year with increases recorded in both the number of consumers served and in the total power consumption.

Espanola District

This district includes the territory within transmission distance of the Abitibi Power and Paper Company's hydro-electric development at Espanola, from which the Commission purchases power to supply consumers under contract in the district. The one mining company which has been served by this means ceased operations during the year, but negotiations have been carried on with other mining properties and there is a probability that another large load may shortly be secured from a mine which has been in the development stage for some time.

Patricia District

This district is served by the Commission's Ear Falls development on the English river at the outlet of Lac Seul and includes the mining areas known as Woman Lake and Red Lake. During the year the Commission completed the installation of a second generating unit at the Ear Falls development, increasing the capacity from 5,000 to 10,000 horsepower, and power was supplied for the first time to two mining properties in the development stage. On this account there was considerable increase in load over that supplied during the previous year.

All of the mining properties under contract with the Commission, as well as most of those in the development stage were visited during the year and assistance rendered in connection with matters pertaining to power supply.

St Joseph District

This district comprises the area within the transmission distance of the Commission's Rat Rapids development on the Albany river at the outlet of lake Joseph. Two producing mining properties are being served and service was given during the year to a new property in the development stage. The Rat Rapids development is now loaded to capacity and studies will be made immediately with respect to providing additional development for this district.

MUNICIPAL HYDRO UTILITIES

TWENTY-FIVE YEAR RECORDS

THE Hydro utilities of Ontario municipalities which are partners in the several systems of the Commission have a noteworthy record of successful achievement. Under the guidance of the Commission and with the benefit of service given by public-spirited citizens acting as commissioners and in other capacities, the local electrical utilities, whether organized as strictly "Hydro" systems or as branches of local public utilities, have built up through the years strong local distribution organizations in excellent financial strength with ample reserves and with rates for service at most attractive levels.

In last year's Annual Report there were presented summary reviews of six Hydro utilities selected from those which have been in operation for a period of twenty-five years or more. On the following pages further similar records are presented and the story they tell confirms the general record of Hydro progress in the partner municipalities throughout the years. The municipalities selected this year are,—the city of Kitchener, population 32,650; the towns of Mimico, population 6,876, Midland, population 6,690, Brampton, population 5,568, and St. Marys, population 4,023; and the village of Norwich, population 1,174.

For each utility there is given a brief statement outlining its history, a summary of its present financial position, a table of the present charges for service for a few representative demands and consumptions, and a number of graphs showing the growth of the utility during the past twenty-five years.

Owing to the large variation in size of municipality, the scales employed for the graphs necessarily differ for each utility but certain methods have been followed to make them as uniform as possible. For each individual utility, the scales employed for the assets and liabilities are of course the same. It will be noted that for many years, the liabilities with minor fluctuations have remained more or less stationary or have actually been declining, the increased plant having been financed out of surplus, etc., and the original investment being under liquidation by the operation of sinking funds. For each municipal utility, the scales of horsepower and population bear a definite relationship to each other, being ½ horsepower per capita for the same vertical height from zero. It will be noted for example, that in the industrial city of Kitchener the power taken has exceeded ½ horsepower per capital for the past three and certain earlier years, whereas, in Mimico, largely a surburban residential district, it has remained well below this amount. The character of the predominating industry has an important bearing on the average horsepower used per capita.

On each plate the four graphs showing revenue from various sources are to the same scale which, for any given municipality, enables a direct comparison of the several sources of revenue to be made. It will be noted that in most cases, revenues for domestic service, especially during the latter half of the period, have been of growing importance and in many cases, the chief source of income.

The graphs on the right hand side under domestic and commercial light service, clearly show the influence of increased consumption on average cost per kilowatt-hour.

KITCHENER—Population 32,650

THE PUBLIC UTILITIES COMMISSION

The enterprising city of Kitchener, then known as Berlin, was first supplied with electric power in the year 1895. The first generators were two Ball arc machines in a manufacturing company's plant and supplied electricity for lighting King Street. In 1903 the Berlin Light Commission was formed. The then existing steam plant, including bi-polar Edison direct-current generators of 200-kw. capacity, was purchased by the city. The steam plant was changed over to gas engines which later were modified to use producer gas. This plant remained in operation until the coming of Niagara power. Meantime the city was developing into a manufacturing centre of importance.

Although other municipalities played an important part in the creation of the Hydro enterprise, it was the outcome of the conference held at Berlin on February 17, 1903, that gave Kitchener the right to be known as the Birthplace of Hydro. It was fitting, therefore, that Berlin was the first municipality to receive Hydro power and was the scene of the inaugural ceremonies which took place on October 11, 1910.

With the close of the twenty-sixth year of operation, the total assets of the Hydro utility of Kitchener are $2,671,144; the total liabilities $344,659; the reserves and surplus $2,326,485. The percentage of net debt to total assets is only 15.1.

Included with the assets and with the surplus above noted is an amount of $1,039,730 which represents the sinking fund equity of the local Hydro utility in The Hydro-Electric Power Commission's Niagara system. This has been accumulated as part of the annual cost of power paid to the Commission.

On the diagram facing this page a graphical presentation is given of the progress made by the Kitchener Hydro utility during the past twenty-five years. The present cost of service to consumers for a few representative billing demands and energy consumptions is given in the tabulation below.

PRESENT COST OF SERVICE

Monthly Bills for Representative Demands and Consumptions

Domestic service		Commercial Light service			Industrial Power service		
Energy consumption	Monthly bill	Billing demand	Energy consumption	Monthly bill	Billing demand	Energy consumption	Monthly bill
kw-hrs.	$ c.	kw	kw-hrs.	$ c.	kw	kw-hrs	$ c.
25	0.75	1	50	1.31	3	150	4.65
40	0.87	1	150	2.39	3	375	6.03
60	1.30	3	150	3.92	6	375	9.89
100	1.62	3	375	6.83	6	750	12.05
150	2.03	6	375	9.12	12	750	19.77
250	2.84	6	750	13.64	12	1,500	24.09
500	4.86	12	750	18.23	30	3,000	58.52
...	.....	12	1,500	27.27	30	6,000	65.21
...	....	30	3,000	64.80	60	6,000	117.05
...	....	30	6,000	78.30	60	15,000	137.10

*Minimum bill.

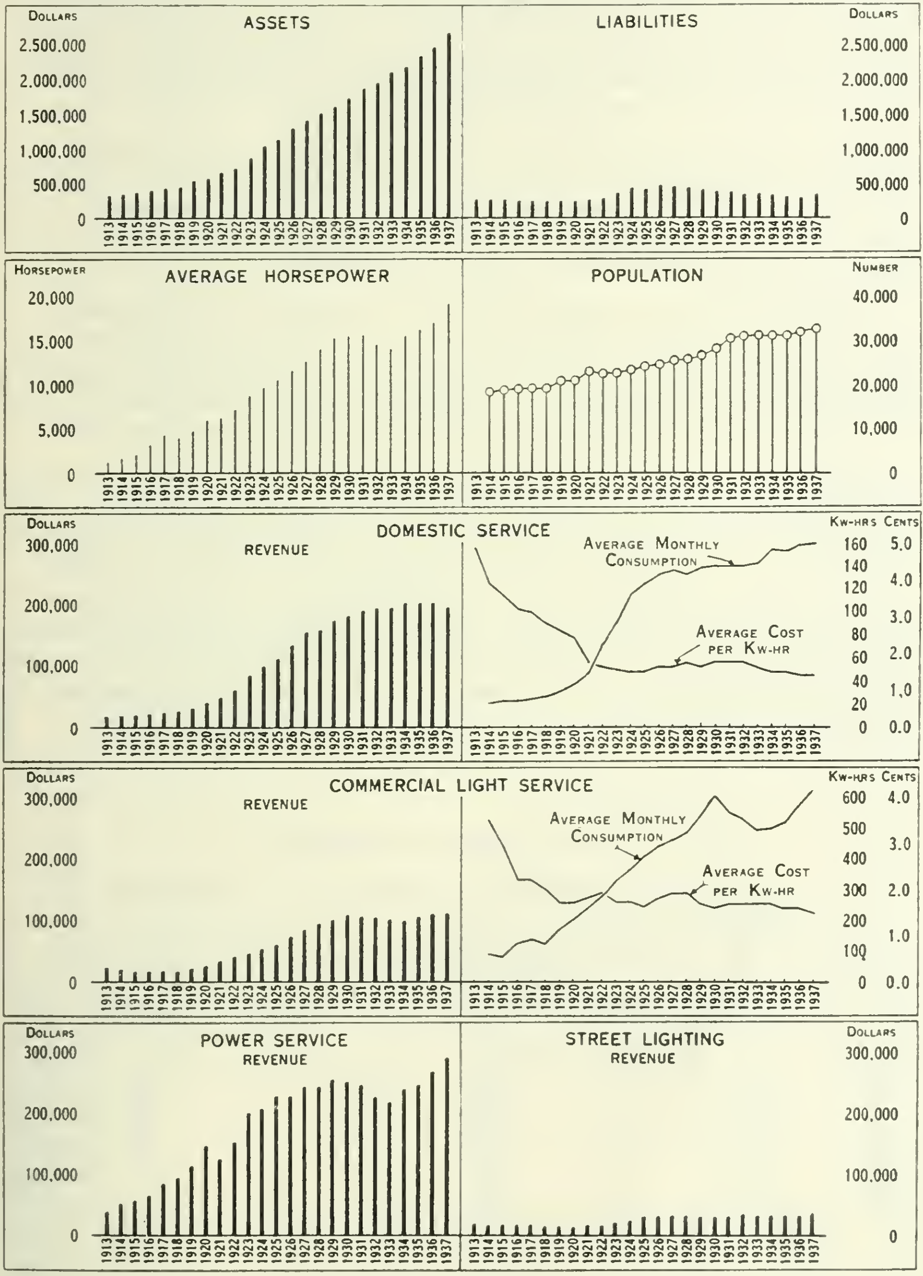
MUNICIPAL HYDRO UTILITIES

TWENTY-FIVE YEARS RECORD

SERVICE FIRST TAKEN
JAN. 1911

KITCHENER

NIAGARA
SYSTEM



MIMICO—Population 6,876

PUBLIC UTILITIES COMMISSION

In 1911, when the village of Mimico had less than a quarter of the population of the present large suburban district into which it has grown, electric light was supplied to the village by the Erindale Electric Power Company. In 1913, when Hydro service was first brought to this municipality, the company was supplying light to about 40 or 50 customers. When in 1916, The Hydro-Electric Power Commission purchased the Erindale Electric Power Company, these customers were transferred to the Mimico Public Utilities Commission.

Mimico was the first lake shore municipality to become interested in the development of Hydro service, and it is of interest to note that the present chairman, Mr. J. J. Harrison, was a member of its first Commission. This is typical of the continuity of service which has contributed so much to the success of the local utilities associated in the Hydro movement.

With the close of the twenty-fifth year of operation, the total assets of the Hydro utility of Mimico are $349,422; the total liabilities $68,257; the reserves and surplus $281,165. The percentage of net debt to total assets is only 28.8; notwithstanding the fact that this utility has continuously had to provide increased distribution facilities to take care of a rapidly growing population.

Included with the assets and with the surplus above noted is an amount of $112,767 which represents the sinking fund equity of the local Hydro utility in The Hydro-Electric Power Commission's Niagara system. This has been accumulated as part of the annual cost of power paid to the Commission.

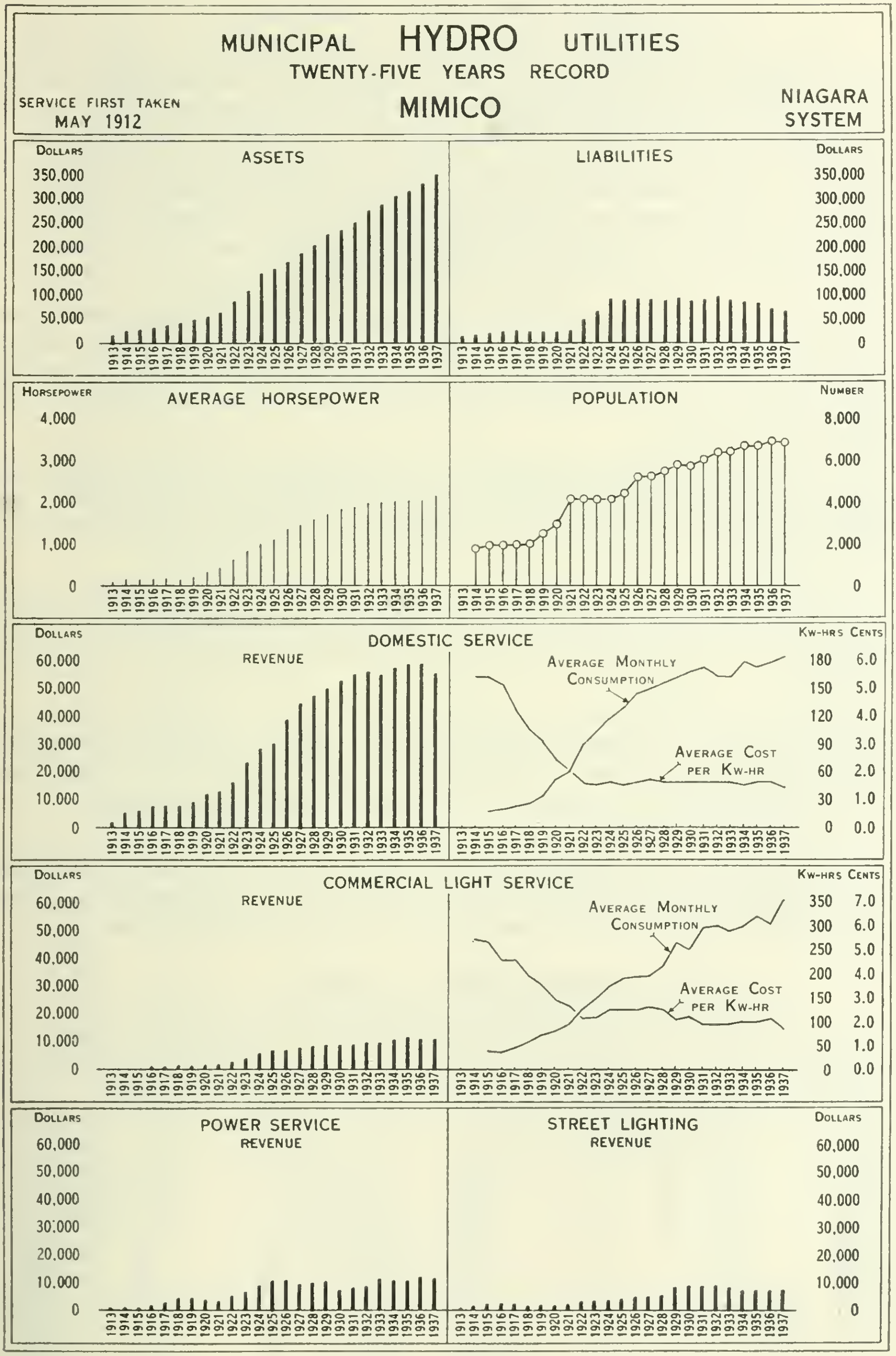
On the diagram facing this page, a graphical presentation is given of the progress made by the Mimico Hydro utility during the past twenty-five years. Throughout this period the customers of the Mimico utility have enjoyed favourable rates for service. The present cost of service to consumers for a few representative billing demands and energy consumptions is given in the tabulation below.

PRESENT COST OF SERVICE

Monthly Bills for Representative Demands and Consumption

Domestic service		Commercial Light service			Industrial Power service		
Energy consumption	Monthly bill	Billing demand	Energy consumption	Monthly bill	Billing demand	Energy consumption	Monthly bill
kw-hrs	$ c.	kw	kw-hrs	$ c.	kw	kw-hrs	$ c.
25	0.75	1	50	1.35	3	150	5.58
40	0.98	1	150	2.52	3	375	7.36
60	1.46	3	150	4.05	6	375	11.93
100	1.86	3	375	7.16	6	750	14.70
150	2.35	6	375	9.45	12	750	23.85
250	3.34	6	750	14.31	12	1,500	29.39
500	5.82	12	750	18.90	30	3,000	71.45
...	....	12	1,500	28.62	30	6,000	79.46
...	....	30	3,000	67.50	60	6,000	142.89
...	....	30	6,000	83.70	60	15,000	166.95

*Minimum bill.


MUNICIPAL HYDRO UTILITIES
TWENTY-FIVE YEARS RECORD
SERVICE FIRST TAKEN
MAY 1912
MIMICO
NIAGARA
SYSTEM
ASSETS
LIABILITIES
DOLLARS
350,000
300,000
250,000
200,000
150,000
100,000
50,000
0
AVERAGE HORSEPOWER
HORSEPOWER
4,000
3,000
2,000
1,000
0
POPULATION
NUMBER
8,000
6,000
4,000
2,000
0
DOMESTIC SERVICE
REVENUE
60,000
50,000
40,000
30,000
20,000
10,000
0
AVERAGE MONTHLY CONSUMPTION
AVERAGE COST PER KW-HR
KW-HRS
180
150
120
90
60
30
0
CENTS
6.0
5.0
4.0
3.0
2.0
1.0
0.0
COMMERCIAL LIGHT SERVICE
REVENUE
AVERAGE MONTHLY CONSUMPTION
AVERAGE COST PER KW-HR
KW-HRS
350
300
250
200
150
100
50
0
CENTS
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
POWER SERVICE
REVENUE
STREET LIGHTING
REVENUE
1913
1914
1915
1916
1917
1918
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937

MIDLAND—Population 6,690

PUBLIC UTILITIES COMMISSION

Prior to 1911 the town of Midland owned and operated a steam electric plant, utilizing in summer the slabs and edging waste from local mills. At this time there were about 400 residences served and the charge for lighting service was about 9 cents net per kilowatt-hour. There were also important power using industries in Midland including a grist mill, woollen mill and grain elevator. On July 20, 1911, the town signed a contract with the Commission for the delivery of 200 horsepower of electrical power with provision for additional power in blocks of 50 horsepower till 500 horsepower was reached, and in blocks of 100 horsepower till 1,600 horsepower was reached.

The power supplied to Midland was purchased by the Commission from the Simcoe Railway and Power Company, being generated at the company's new plant at Big Chute on the Severn river. This plant was later purchased by the Commission and now forms part of the generating equipment of the Georgian Bay system.

Notwithstanding the fact that the industrial loads have fluctuated considerably and the total power taken by the municipality is substantially less now than in 1928, the operation of the local Hydro system has throughout been very successful.

With the close of the twenty-sixth year of operation, the total assets of the Hydro utility of the town of Midland are $528,391; the total liabilities $14,910; the reserves and surplus $513,481. The percentage of net debt to total assets is only 4.2.

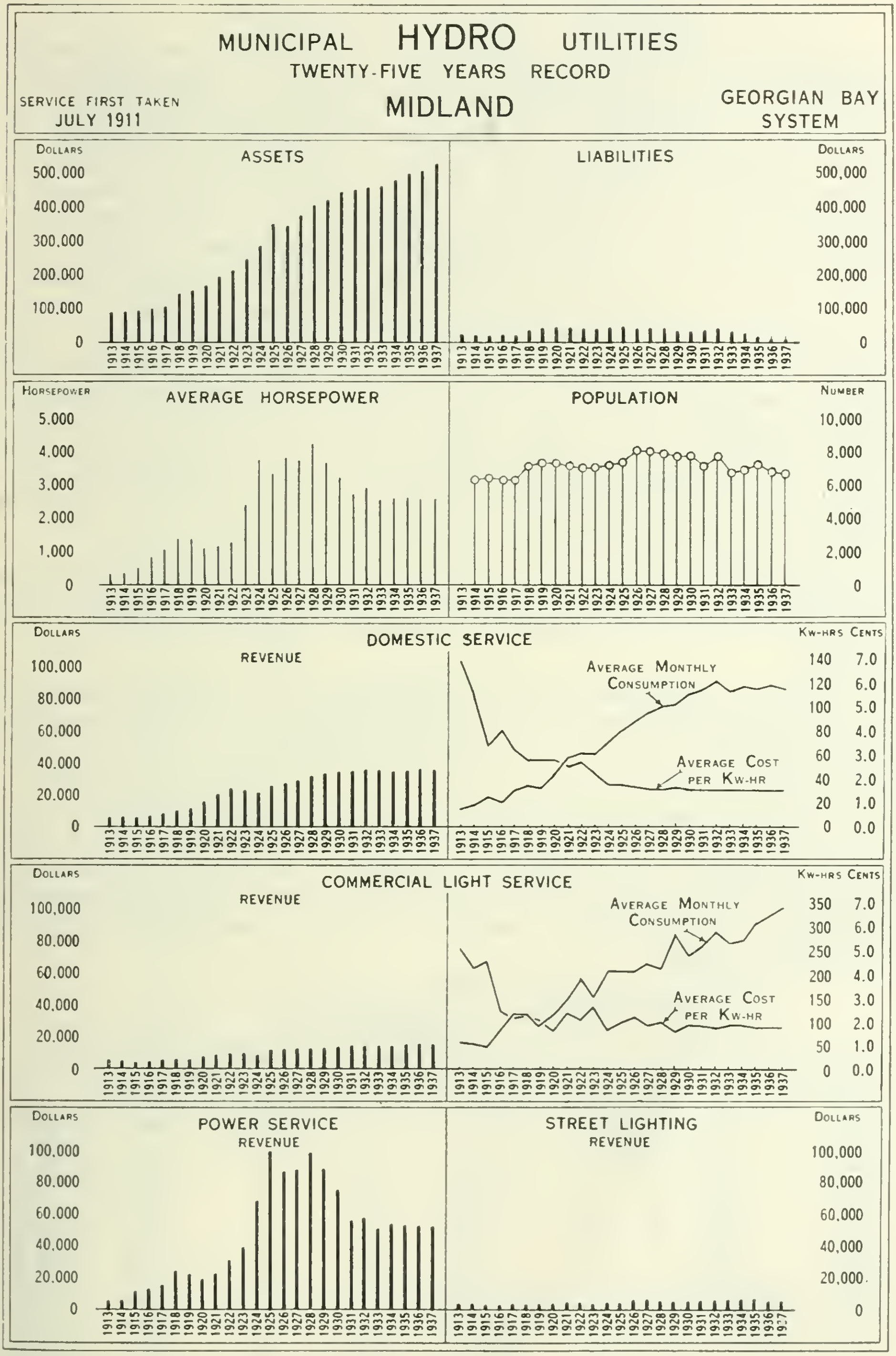
Included with the assets and with the surplus above noted is an amount of $176,454 which represents the sinking fund equity of the local utility in The Hydro-Electric Power Commission's Niagara system. This has been accumulated as part of the annual cost of power paid to the Commission.

On the diagram facing this page a graphical presentation is given of the progress made by the Midland Hydro utility during the past twenty-five years. The present cost of service to consumers for a few representative billing demands and energy consumptions is given in the tabulation below.

PRESENT COST OF SERVICE

Monthly Bills for Representative Demands and Consumptions

Domestic service		Commercial Light service			Industrial Power service		
Energy consumption	Monthly bill	Billing demand	Energy consumption	Monthly bill	Billing demand	Energy consumption	Monthly bill
kw-hrs	$ c.	kw	kw-hrs	$ c.	kw	kw-hrs	$ c.
25	0.75	1	50	1.35	3	150	4.44
40	1.02	1	150	2.70	3	375	5.72
60	1.38	3	150	4.05	6	375	9.44
100	1.74	3	375	7.43	6	750	11.44
150	2.49	6	375	9.45	12	750	18.86
250	3.39	6	750	14.85	12	1,500	22.87
500	5.64	12	750	18.90	30	3,000	55.49
...	....	12	1,500	29.70	30	6,000	62.18
...	....	30	3,000	67.50	60	6,000	110.97
...	....	30	6,000	94.50	60	15,000	131.03


MUNICIPAL HYDRO UTILITIES
TWENTY-FIVE YEARS RECORD
SERVICE FIRST TAKEN
JULY 1911
MIDLAND
GEORGIAN BAY
SYSTEM
ASSETS
LIABILITIES
Dollars
500,000
400,000
300,000
200,000
100,000
0
AVERAGE HORSEPOWER
Horsepower
5,000
4,000
3,000
2,000
1,000
0
POPULATION
Number
10,000
8,000
6,000
4,000
2,000
0
DOMESTIC SERVICE
REVENUE
Dollars
100,000
80,000
60,000
40,000
20,000
0
Average Monthly Consumption
Average Cost per Kw-hr
Kw-hrs
140
120
100
80
60
40
20
0
Cents
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
COMMERCIAL LIGHT SERVICE
REVENUE
Average Monthly Consumption
Average Cost per Kw-hr
Kw-hrs
350
300
250
200
150
100
50
0
POWER SERVICE
REVENUE
STREET LIGHTING
REVENUE
1913
1914
1915
1916
1917
1918
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937

BRAMPTON—Population 5,568

BRAMPTON HYDRO-ELECTRIC COMMISSION

More than fifty years ago, in the year 1885, Brampton was supplied with electric light from a plant erected by Mr. J. O. Hutton, at Huttonville on the Credit river, four miles west of Brampton. The plant of the Huttonville Electric Power Company utilized a water wheel built by Mr. Barber of Meaford. The company supplied power and street lighting in Brampton until 1903, when it was purchased by John McMurchy of Huttonville. At that time there were about 45 customers. Mr. McMurchy, shortly after taking control, enlarged the generating plant and supplied lighting for 500 customers, increased street lighting, and power to the Brampton Milling Company and W. B. McMulloch.

The by-law submitted in December, 1910, carried in favour of Hydro power, and on August 11, 1911, Hydro power was first supplied to the municipality. It is interesting to note, however, that power from the Huttonville plant was supplied to three factories in Brampton until 1932, and since then has been supplied to the Williams Shoe Company. The late T. W. Duggan, a member of the first Commission, continued a member for twenty-five years until he retired in December, 1937. He was chairman for twenty-four years, a record typical of the faithful service which has contributed so much to Hydro success in the local communities it serves.

With the close of the twenty-sixth year of operation, the total assets of the Hydro utility of Brampton are $323,505; the total liabilities $11,529; the reserves and surplus $311,976. The percentage of net debt to total assets is only 6.2.

Included with the assets and with the surplus above noted is an amount of $137,759 which represents the sinking fund equity of the local Hydro utility in The Hydro-Electric Power Commission's Niagara system. This has been accumulated as part of the annual cost of power paid to the Commission.

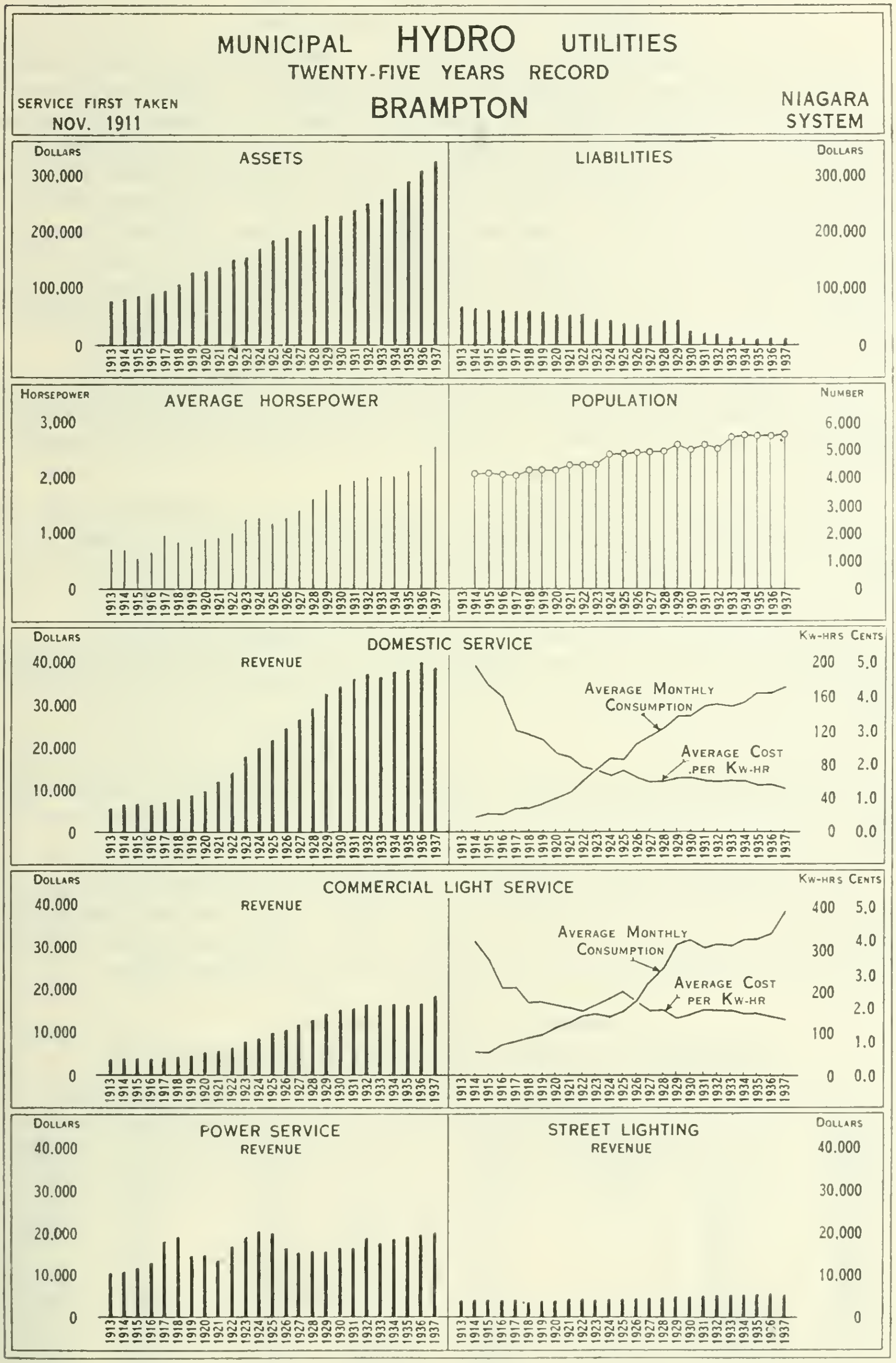
On the diagram facing this page, a graphical presentation is given of the progress made by the Brampton Hydro utility during the past twenty-five years. Throughout this period the customers of the Brampton utility have enjoyed favourable rates for service. The present cost of service to consumers for a few representative billing demands and energy consumptions is given in the tabulation below.

PRESENT COST OF SERVICE

Monthly Bills for Representative Demands and Consumption

Domestic service		Commercial Light service			Industrial Power service		
Energy consumption	Monthly bill	Billing demand	Energy consumption	Monthly bill	Billing demand	Energy consumption	Monthly bill
kw-hrs	$ c.	kw	kw-hrs	$ c.	kw	kw-hrs	$ c.
25	0.75*	1	50	1.26	3	150	4.44
40	0.83	1	150	2.34	3	375	5.72
60	1.25	3	150	3.78	6	375	9.44
100	1.61	3	375	6.62	6	750	11.44
150	2.06	6	375	8.78	12	750	18.86
250	2.96	6	750	13.23	12	1,500	22.87
500	5.21	12	750	17.55	30	3,000	55.49
...	....	12	1,500	26.46	30	6,000	62.18
...	....	30	3,000	62.10	60	6,000	110.97
...	....	30	6,000	78.30	60	15,000	131.03

*Minimum bill.


MUNICIPAL HYDRO UTILITIES
TWENTY-FIVE YEARS RECORD
SERVICE FIRST TAKEN
NOV. 1911
BRAMPTON
NIAGARA
SYSTEM
DOLLARS
ASSETS
300,000
200,000
100,000
0
LIABILITIES
DOLLARS
300,000
200,000
100,000
0
HORSEPOWER
AVERAGE HORSEPOWER
3,000
2,000
1,000
0
POPULATION
NUMBER
6,000
5,000
4,000
3,000
2,000
1,000
0
DOLLARS
DOMESTIC SERVICE
REVENUE
40,000
30,000
20,000
10,000
0
AVERAGE MONTHLY CONSUMPTION
AVERAGE COST PER KW-HR
KW-HRS
CENTS
200
160
120
80
40
0
5.0
4.0
3.0
2.0
1.0
0.0
DOLLARS
COMMERCIAL LIGHT SERVICE
REVENUE
40,000
30,000
20,000
10,000
0
AVERAGE MONTHLY CONSUMPTION
AVERAGE COST PER KW-HR
KW-HRS
CENTS
400
300
200
100
0
5.0
4.0
3.0
2.0
1.0
0.0
DOLLARS
POWER SERVICE
REVENUE
40,000
30,000
20,000
10,000
0
STREET LIGHTING
REVENUE
DOLLARS
40,000
30,000
20,000
10,000
0
1913
1914
1915
1916
1917
1918
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937

ST. MARYS—Population 4,023

PUBLIC UTILITIES COMMISSION

Electrical service in St. Marys started in 1889 when Tom Brown installed a small bi-pole direct current generator at the Weir Flour Mills, wired some of the stores and replaced street oil lamps by arc lights. The late L. H. Reesor purchased the plant in 1890, and moved the generator to the Carter Flour Mills at the East end of Victoria Bridge. About the middle nineties the town council purchased the plant. In 1898 the present pump house was built and the waterworks and electric plant were combined. A 200-horsepower compound engine drove two 60-cycle generators at night and the pumps by day. In 1905 these generators were replaced by a 300-kilowatt 60-cycle rotating field type generator, and a second engine of 80 horsepower was operated in parallel at peak loads.

The most important manufacturing industry of St. Marys is the St. Marys Cement Company based upon the local limestone deposits. Other industries include flour and planing mills, foundries, food and dairy plants, and electrical and agricultural manufactures.

In 1904 the rates for electrical service were 12 cents per kilowatt-hour, less 25 per cent prompt payment discount, plus 20 to 25 cents per month meter rental. In 1914, including the electric light and waterworks there were four users of electric power with installations of 100 horsepower or more.

With the close of the twenty-sixth year of operation, the total assets of the Hydro utility of the town of St. Marys are $304,163; the total liabilities $31,737; the reserves and surplus $272,426. The percentage of net debt to total assets is 15.4.

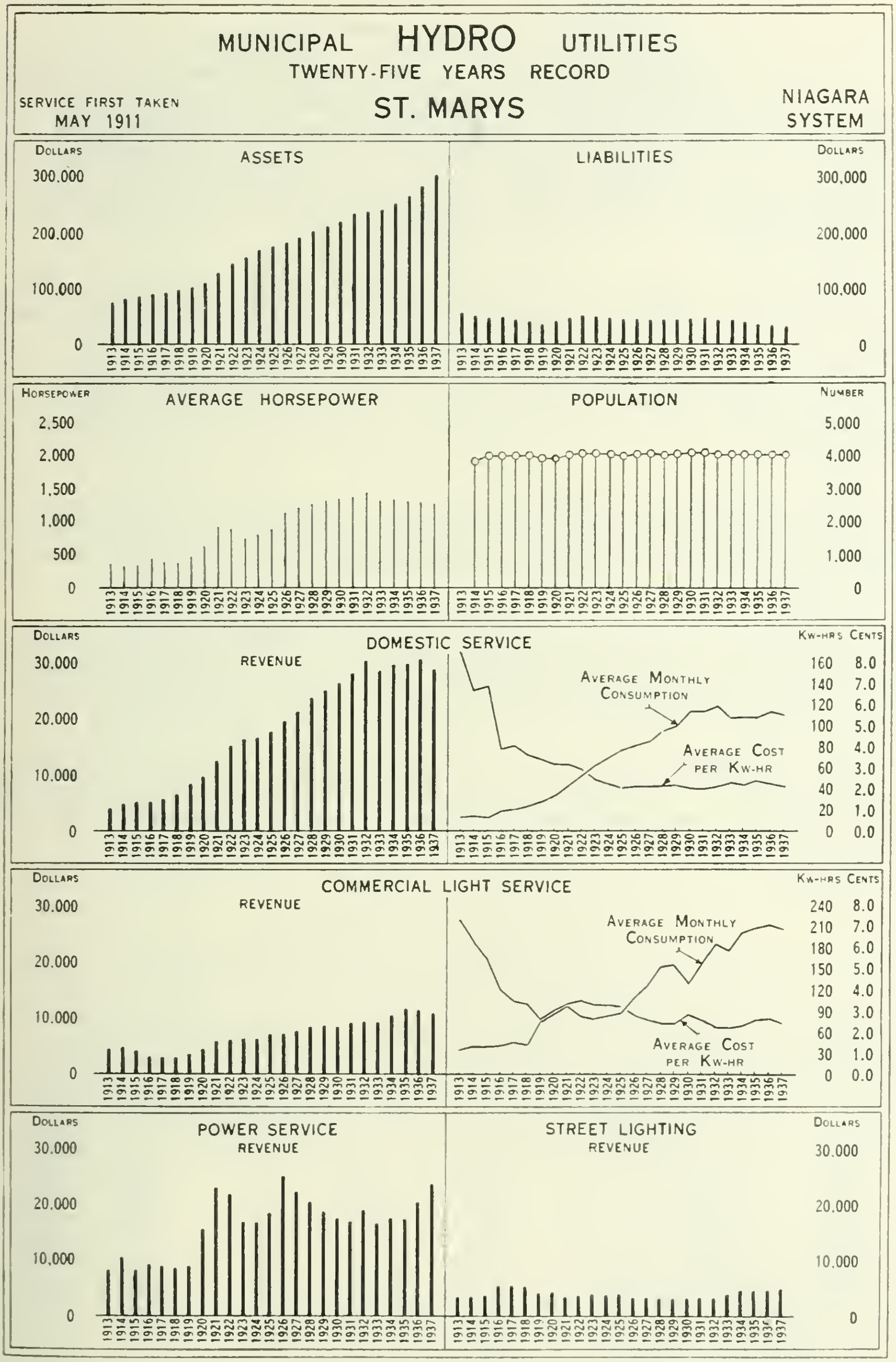
Included with the assets and with the surplus above noted is an amount of $108,390 which represents the sinking fund equity of the local utility in The Hydro-Electric Power Commission's Niagara system. This has been accumulated as part of the annual cost of power paid to the Commission.

On the diagram facing this page a graphical presentation is given of the progress made by the St. Marys Hydro utility during the past twenty-five years. The present cost of service to consumers for a few representative billing demands and energy consumptions is given in the tabulation below.

PRESENT COST OF SERVICE

Monthly Bills for Representative Demands and Consumptions

Domestic service		Commercial Light service			Industrial Power service		
Energy consumption	Monthly bill	Billing demand	Energy consumption	Monthly bill	Billing demand	Energy consumption	Monthly bill
kw-hrs	$ c.	kw	kw-hrs	$ c.	kw	kw-hrs	$ c.
25	0.86	1	50	1.67	3	150	6.59
40	1.37	1	150	3.29	3	375	8.71
60	2.06	3	150	5.00	6	375	14.13
100	2.45	3	375	9.26	6	750	17.41
150	2.95	6	375	11.82	12	750	28.25
250	3.94	6	750	18.50	12	1,500	34.81
500	6.41	12	750	23.63	30	3,000	84.78
...	....	12	1,500	36.99	30	6,000	93.69
...	....	30	3,000	86.40	60	6,000	169.56
...	....	30	6,000	110.70	60	15,000	196.29


MUNICIPAL HYDRO UTILITIES
TWENTY-FIVE YEARS RECORD
SERVICE FIRST TAKEN MAY 1911
ST. MARYS
NIAGARA SYSTEM
DOLLARS
ASSETS
LIABILITIES
300,000
200,000
100,000
0
HORSEPOWER
AVERAGE HORSEPOWER
POPULATION
NUMBER
2,500
2,000
1,500
1,000
500
5,000
4,000
3,000
DOMESTIC SERVICE
REVENUE
30,000
20,000
10,000
KW-HRS CENTS
AVERAGE MONTHLY CONSUMPTION
AVERAGE COST PER KW-HR
160 8.0
140 7.0
120 6.0
100 5.0
80 4.0
60 3.0
40 2.0
20 1.0
0 0.0
COMMERCIAL LIGHT SERVICE
240 8.0
210 7.0
180 6.0
150 5.0
120 4.0
90 3.0
60 2.0
30 1.0
POWER SERVICE
STREET LIGHTING
1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937

NORWICH—Population 1,174

PUBLIC UTILITIES COMMISSION

Prior to contracting with the Commission for Hydro service, the village of Norwich was supplied with a limited lighting service from a steam plant owned by the late H. Webster. Service was given only between dusk and midnight but for the limited requirements of that time was satisfactory. The maximum load on a winter evening was about 50 horsepower. The charge for the limited lighting service was 10 cents per kilowatt hour, which was really quite reasonable.

The present Hydro service forms an interesting contrast with conditions thirty years ago. There are now seven power consumers with an aggregate average load of 120 horsepower, and ninety commercial light consumers, in addition to 350 domestic consumers. The average monthly consumption of the domestic consumer is seven times what it was in 1913, and the average cost per kilowatt-hour is less than one-fifth of the cost prior to the installation of Hydro service.

With the close of the twenty-fifth year of operation, the total assets of the Hydro utility of the village of Norwich are $82,945; the total liabilities $3,985; the reserves and surplus $78,960. The percentage of net debt to total assets is only 7.5.

Included with the assets and with the surplus above noted is an amount of $29,951 which represents the sinking fund equity of the local utility in The Hydro-Electric Power Commission's Niagara system. This has been accumulated as part of the annual cost of power paid to the Commission.

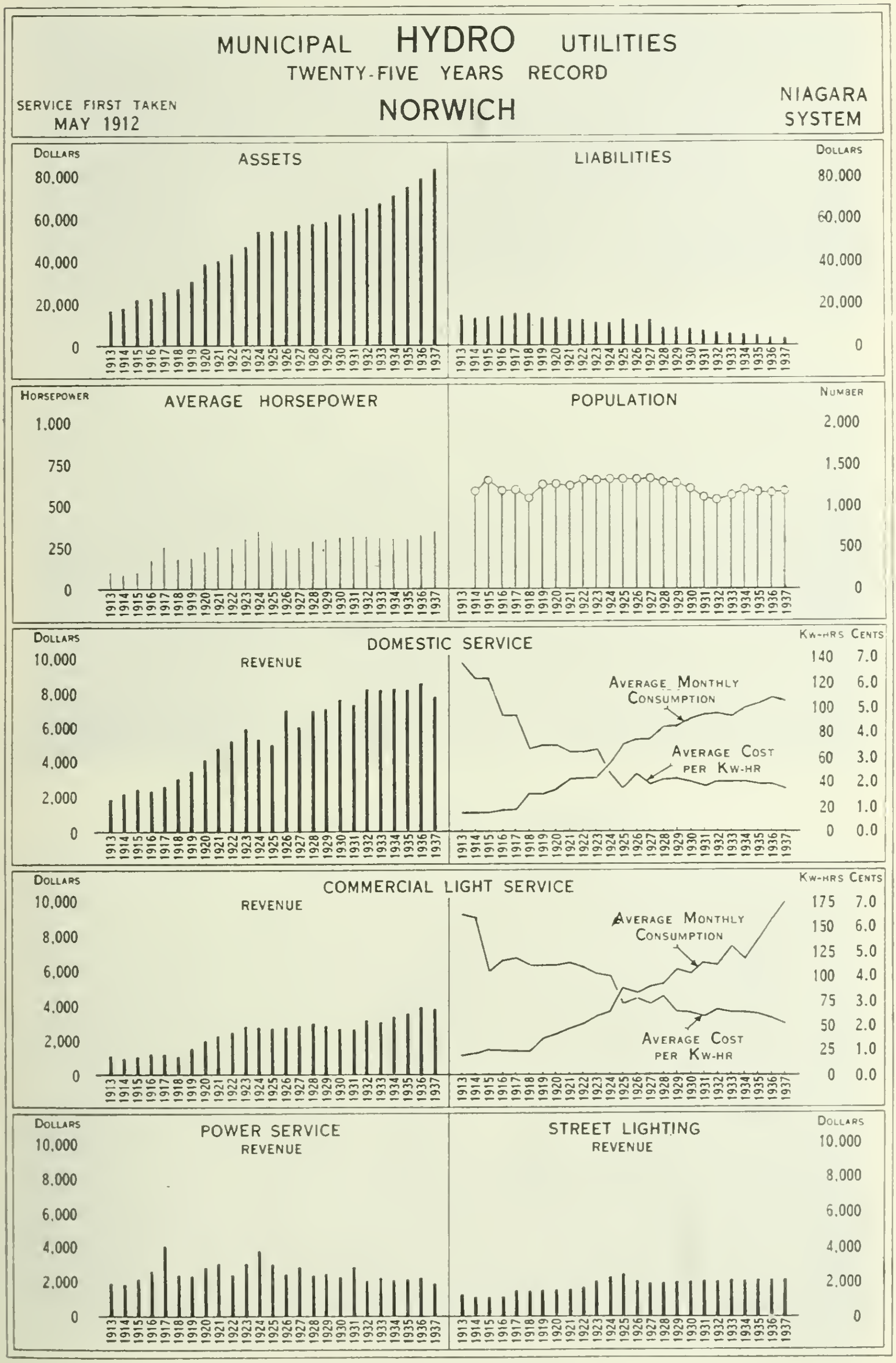
On the diagram facing this page a graphical presentation is given of the progress made by the Norwich Hydro utility during the past twenty-five years. The present cost of service to consumers for a few representative billing demands and energy consumptions is given in the tabulation below.

PRESENT COST OF SERVICE

Monthly Bills for Representative Demands and Consumption

Domestic service		Commercial Light service			Industrial Power service		
Energy consumption	Monthly bill	Billing demand	Energy consumption	Monthly bill	Billing demand	Energy consumption	Monthly bill
kw-hrs	$ c.	kw	kw-hrs	$ c.	kw	kw-hrs	$ c.
25	0.75*	1	50	1.44	3	150	5.21
40	1.01	1	150	2.70	3	375	6.63
60	1.52	3	150	4.32	6	375	11.02
100	1.88	3	375	7.70	6	750	13.24
150	2.33	6	375	10.13	12	750	22.03
250	3.23	6	750	15.39	12	1,500	26.47
500	5.48	12	750	20.25	30	3,000	64.16
...	....	12	1,500	30.78	30	6,000	72.18
...	....	30	3,000	72.90	60	6,000	128.31
...	....	30	6,000	89.10	60	15,000	152.37

*Minimum bill.


MUNICIPAL HYDRO UTILITIES
TWENTY-FIVE YEARS RECORD
SERVICE FIRST TAKEN MAY 1912
NORWICH
NIAGARA SYSTEM
ASSETS
LIABILITIES
Dollars
80,000
60,000
40,000
20,000
0
AVERAGE HORSEPOWER
Horsepower
1,000
750
500
250
0
POPULATION
Number
2,000
1,500
1,000
500
0
DOMESTIC SERVICE
REVENUE
Dollars
10,000
8,000
6,000
4,000
2,000
0
Average Monthly Consumption
Average Cost per Kw-hr
Kw-hrs
140
120
100
80
60
40
20
0
Cents
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
COMMERCIAL LIGHT SERVICE
REVENUE
Dollars
10,000
8,000
6,000
4,000
2,000
0
Average Monthly Consumption
Average Cost per Kw-hr
Kw-hrs
175
150
125
100
75
50
25
0
Cents
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
POWER SERVICE
REVENUE
STREET LIGHTING
REVENUE
Dollars
10,000
8,000
6,000
4,000
2,000
0
1913
1914
1915
1916
1917
1918
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937

A RUBBER COMPANY'S PLANT AT KITCHENER
Dominion Tire Factory

A FLOUR MILL AND ELEVATOR AT MIDLAND
Copeland Flour Mill — Midland Elevator Company

A CEMENT PLANT AT ST. MARYS
Portion of St. Marys Cement Company plant

RECREATION FACILITIES AT BRAMPTON

Skating rink with "Hydro" lighting

HYDRO BUILDING AT KITCHENER

RURAL ELECTRICAL SERVICE

IN ONTARIO

Rural electrical service has been studied by The Hydro-Electric Power Commission of Ontario since the earliest years of its existence. The possibility of making farm life more attractive to the younger citizens of rural Ontario through electrical service, and of relieving both the farmer and his wife of much of the routine drudgery of farming as carried on in Ontario, was prominently in the mind of the Commission's first Chairman, Sir Adam Beck. Early Annual Reports of the Commission bear witness to the efforts made in this direction by the Commissioners.

During the earliest years the only farmers in Ontario using electricity were a few adjacent to urban municipalities where line extensions could easily be made as part of the urban distribution systems. Up to the year 1920 the progress made was comparatively small. In that year, under amended legislation, the Province was divided into rural power districts whose boundaries were not arbitrary geographical limits but depended upon the economical areas which could conveniently be served from a distribution centre of city, town or village. In the following year a great impetus to rural electrification was given by the Province undertaking to pay as a grant-in-aid fifty per cent of the cost of rural primary lines on highways throughout the Province. In 1924 the grants were further extended and during the following decade great progress was made, as may be seen by reference to the graphs accompanying this report. In previous Annual Reports the history of rural electrical service in this Province is more fully detailed. A clearer understanding of its present status may be gained by first noting the following general statements.

The Province of Ontario extends over a vast area of 400,000 square miles, the southern part of the Province commonly known as "Old Ontario," comprising most of the settled area. In this territory there is an assessed area of approximately 40,000 square miles containing about twenty-two million acres, of which 75 per cent is land cleared for agricultural purposes. The total rural population in this area exceeds 1,100,000.

Census data indicates that there are approximately 200,000 farms in Ontario, varying from one acre to six hundred acres, or larger. It would be erroneous to conclude that hydro-electric service will eventually extend to such a number of farms. Approximately 10 per cent of these, are very small, and service to them if available is supplied by the Commission under rates applicable to non-farm classes. A large number of farms are jointly owned and tenanted, and a large number are situated in remote districts out of reach of Hydro lines and stations. The Commission, based on certain surveys in various parts of the Province, estimates that approximately 75,000 standard or large farms comprise the ultimate total farms to be served. At the present time,

AN ATTRACTIVE FARM HOME IN ONTARIO

The time saved through the use of labour saving electric equipment in home and barn is frequently devoted to maintenance of fences and buildings and to the cultivation of fruits and vegetables for the home or market, as illustrated above

approximately 45,000 of these standard farms are served by the Hydro or by private supply companies. Of the remaining 30,000, it is expected that most will be served during the next five years. In addition to the 75,000 farms, there are approximately 30,000 more farms to which, due to various economical and other circumstances, service is improbable or at best indefinite.

The distribution of power in, as well as the wholesale supply of power to, Ontario rural communities, is almost entirely carried out by The Hydro-Electric Power Commission. A very limited amount is supplied by private companies. The Commission organizes service to consumers in townships or parts of townships which can be grouped into economic areas known as rural power districts, and in doing so, acts as trustee and agent for the various townships of the Province.

There are 177 operating rural power districts, and power is delivered to approximately 86,000 rural consumers, comprising farms and dwellings in various groups. The consumers are situated in 378 townships and 96 police villages, and are served over networks of rural primary lines, which aggregate more than 13,000 miles. In addition to the 378 townships served by rural power districts, 10 townships are served jointly by rural power districts and voted areas.

The benefits of rural electrical service are explained to prospective rural consumers by means of direct information given by the Commission's employees, by demonstrations at annual fairs and exhibitions and through the press. Frequent visits to larger centres of population have made the farmer familiar with the application of electrical appliances and machinery as a means of providing greater comfort in the home and freedom from the drudgery of certain farm work. Perhaps the most persuasive argument to the farmer is his knowledge of the benefits electrical service has brought to his neighbour. Once the progressive farmer installs electrical service, he does not rest content until he has secured additional equipment to enable him to obtain fuller advantages from the service. This process is doubly beneficial because, not only does it reduce the average cost of electricity to the individual farmer, but it tends towards securing lower rates throughout the district. The aim of the Commission and of the rural consumers should be the maximum use of the power made available so that the average cost to the consumer may be suitable to the economic conditions of farm life.

The Commission desires, in every reasonable way, to encourage the more liberal use of electrical service in rural areas, especially by the farmers. Under the policy by which rural power districts receive their wholesale supplies of power at cost, combined with the substantial contributions of the Province to aid the distribution of electricity to rural citizens, the Ontario farmer receives service at an exceptionally low cost. Beginning December 1, 1936, the service charge to Class 2B—Farm Service, Small—and to Class 3—Farm Service, Light—was reduced to one dollar net per month, which is a reduction of about 50 per cent from the previous standard service charges. Medium, Heavy and Special farm service received service charge reductions of 25 per cent from the standard rates. In addition to these reductions, further substantial reductions were made to other classes of rural consumers, beginning August 1, 1937. These reductions may be noted by reference to the tables set out in this report.

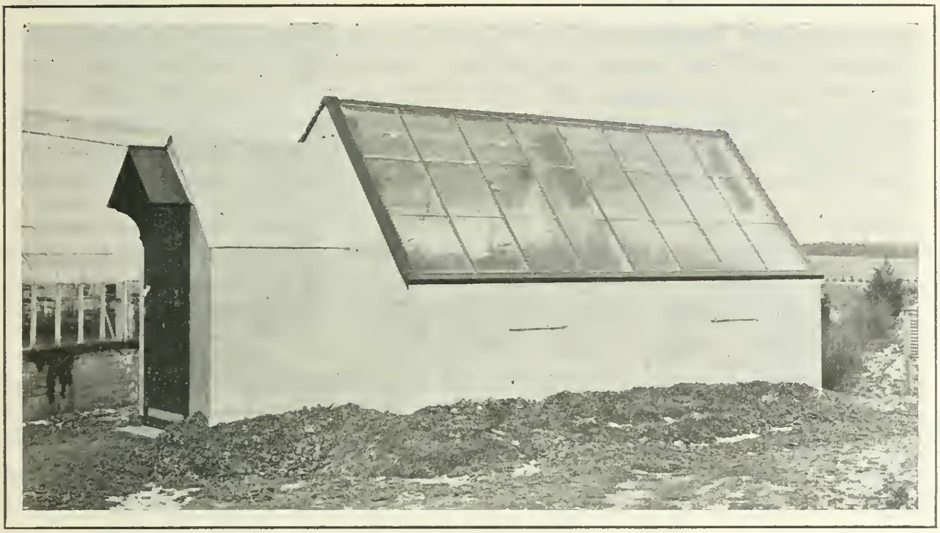
The Commission has observed that quite a large proportion of consumers in rural power districts fail to make much more than a minimum use of the service and do not appear to appreciate fully how much more service can be obtained by a comparatively small addition to their monthly bills. Efforts are being made to explain this and other features of Hydro service to the farmer in ways which will appeal to him. Not only has the service charge to the rural citizen been made very small but the number of kilowatt-hours charged for at his first energy rate is usually smaller than in cities, towns and villages. Consequently, a very moderate use of energy brings him into the position where additional energy can be obtained for the low follow-up rates in force.

Uses for Electricity

Each year the progressive farmer of Ontario finds many new uses for electrical service. It would be impossible in this Report to describe these at length, but they may be classified under the following heads:

Lighting Service—Electric lighting is safe, convenient and time saving. It adds to the comfort and attractiveness of the farm home and reduces fire hazard to a minimum. Against the cost of energy for lighting may be set the cost of coal oil or candles. Even at 6 cents per kilowatt-hour, a 40-watt lamp can be operated nearly 24 hours for 5 cents.

The progressive farmer is using controlled lighting for increasing the production of eggs and, what is more important from the viewpoint of financial returns, obtaining a greater proportion of the annual egg yield during the months when prices are high. Special forms of lamps, such as the infra-red or heat lamps, can be used to prevent rheumatism, etc., in litters of pigs, while ultra violet lamps have proven effective in preventing rickets in young pigs and chicks, eliminating losses and providing a more rapid and sturdy growth.



RURAL ELECTRICAL SERVICE IN ONTARIO

An insulated greenhouse developed by the Boyce Thompson Institute, installed at the Ontario Agricultural College by The Hydro-Electric Power Commission, for research on the application of electric light to plant growth, conducted jointly by The Hydro-Electric Power Commission and the Ontario Agricultural College

Power Service—Next to lighting, the energy used for mechanical purposes gives the most valuable service for the money expended for electricity.

In the farm home washing machines, vacuum cleaners, fans and furnace blowers contribute to making the farm home equal in comfort to one in the city. Motor-driven pumps supply water for sanitary systems and general house and farm use.

In the barn, dairy and workshop of the farm, electric motors may be employed for chopping feed, wood cutting, hay hoisting, milking, cream separating, churning and the many purposes of the farm workshop. Electric milking machines reduce labour at milking time to one-half and their regular use increases the milk flow and fat content.

The cost of electricity for operating small motor-driven appliances, such as washing machines and pumps for the use of water under pressure for sanitary purposes, is very small. With energy at the 2-cent per kilowatt-hour rate, a ¼-horsepower motor can be operated at full load for three hours for 1 cent. As actually used in motor-driven appliances, the motors frequently operate at less than full load or, under automatic operation as in pumping and refrigeration, for only 25 to 50 per cent of the 24 hours.

Electric Refrigeration—This is a special application of power service. Its use promotes health and comfort and reduces food losses. Ice obtained from neighbouring ponds is frequently contaminated and has endangered the health of many farm dwellers. Electric refrigeration is of special assistance in connection with dairy operations. The farmer can accumulate his separated cream for a few days with safety and can improve the marketing quality of his milk by cooling. It is also useful in egg storage.

Heating Service—Under this head come: the minor appliances of hand irons, ironing machines, toasters, and hot plates, which owing to their intermittent use consume relatively small quantities of electricity per month; the major heating appliances of ranges and water heaters which need relatively large quantities of energy for their operation, and the special applications of electricity for incubating, brooding, etc., and for soil heating which only becomes economically profitable when the current used is available at specially low rates.

The electric range, although a heavy user of current, is efficient and the cost of operation is more than offset where the farmer can more advantageously employ his time than in hauling and chopping wood for the stove. It is safer and in summer provides cool cooking in comfort for the farmer's wife and also leaves her freer to undertake more useful work.

Entertainment Service—Radio—Radios provide entertainment, general information and a familiarity with current events and market prices which have done much to make life on the farm more attractive and profitable. The many applications of power in a farm workshop will provide countless hours of valuable recreation and pleasure.

Miscellaneous—The miscellaneous applications of electricity seem only to be limited by the ingenuity of the farmer in adapting this modern flexible agent to his various needs. It is used when spraying against insects and to paint the barn, for incubating, brooding and for the control of humidity and ventilation in connection with poultry raising, to prevent the freezing of vegetables, to cook supplementary food for hogs and in countless other ways.

Recent Benefits to Rural Consumers

During the year, extensive studies were made in order to ascertain whether the service charge might be reduced to all classes of consumers in order to promote the agricultural industry, and it was concluded that a further reduction would be made.

Two reductions were made as follows:

1. REDUCTION TO FARMERS ON DECEMBER 1, 1936

Class of consumer	Service	Former maximum net Service Charge per month in force since Nov., 1935	New maximum net Service Charge per month in force on Dec. 1, 1936	
			Non-farm	Farm
		$ c.	$ c.	$ c.
1B	Hamlet lighting	1.20	1.20	....
1C	Hamlet lighting, plus range	1.90	1.90	....
2A	House lighting	1.40	1.40	....
2B	Small farm service	1.90	1.90	1.00
3	Light farm service	2.00	2.00	1.00
4	Medium farm service (one phase)	2.15	2.15	1.61
5	Medium farm service (three phase)	3.00	3.00	2.25
6A	Heavy farm service (one phase)	3.70	3.70	2.77
6B	Heavy farm service (three phase)	4.25	4.25	3.19
7A	Special farm service (one phase)	5.55	5.55	4.16
7B	Special farm service (three phase)	6.70	6.70	5.02

2. REDUCTION TO INCLUDE ALL CONSUMERS ON AUGUST 1, 1937

Class of consumer	Service	Former maximum net Service Charge per month in force since Nov., 1935	New maximum net Service Charge per month in force on Aug. 1, 1937	
			Regular	Summer cottages
		$ c.	$ c.	$ c.
1B	Hamlet lighting	1.20	1.00	1.00
1C	Hamlet lighting, plus range	1.90	1.00	1.40
2A	House lighting	1.40	1.00	1.00
2B	Small farm service	1.90	1.00	1.40
3	Light farm service	2.00	1.00	1.40
4	Medium farm service (one phase)	2.15	1.40	1.40
5	Medium farm service (three phase)	3.00	2.25	2.25
6A	Heavy farm service (one phase)	3.70	2.50	2.50
6B	Heavy farm service (three phase)	4.25	2.50	2.50
7A	Special farm service (one phase)	5.55	3.00	3.00
7B	Special farm service (three phase)	6.70	3.00	3.00

Free Service

The free current given in recent years, to operate electric washing machines, electric pumps to provide water under pressure for household sanitary systems, and licensed, alternating-current radios, was continued during the year, up to October 31, 1937. Due to the great reduction in service charges this arrangement was discontinued on November 1, and will not be given in the future.

Maximum Consumption Charge

The Commission has found that the maximum economic limit of the first domestic use throughout the rural power districts of the Province is 6 cents per kilowatt-hour. In all rural power districts, the first consumption rate is fixed at a maximum of 6 cents per kilowatt-hour. The second rate has a maximum of 2 cents per kilowatt-hour which applies to all districts.

New Low Third Consumption Rate for Long-Hour Users

In 1934 the Commission made available for rural consumers a special energy rate for long-hour uses of power by rural consumers. This particularly affects under-earth heating (hot-beds) and heating of water. Where the extra use of energy may be obtained from the present equipment, a third follow-up rate per kilowatt-hour of 0.75 cents gross, is given in all districts. The first rate remains unchanged, except that as pointed out above it is subject to a maximum of 6 cents per kilowatt-hour, and the kilowatt-hours to be charged at the first rate remain unchanged. The number of kilowatt-hours to be charged at the second rate varies both with the class of service and the first kilowatt-hour rate. At the head of the table of rural rates at the end of this section, is a schedule which shows the class of service, the number of kilowatt-hours per month to be charged for at the first rate, and the number of kilowatt-hours at the second-rate according to the governing first rate.

Provincial Government Aids Rural Electrical Service

Assistance respecting electrical service is given by the Province to farmers and rural residents in three ways, namely:

First—A "grant-in-aid" toward the initial capital cost of supplying electrical service, amounting to 50 per cent of the cost of line and secondary equipment necessary to deliver power from the supply point of the Commission's stations or of a city, town, village, etc., to the customer's property. This is the maximum amount provided for by *The Rural Hydro-Electric Distribution Act.*

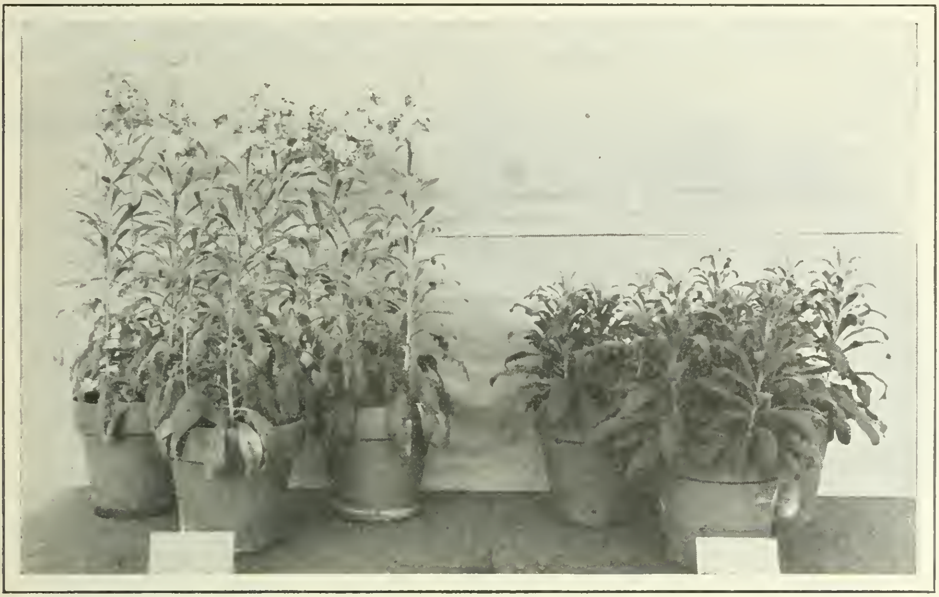
Second—Authority was granted to the Commission by the Province in *The Rural Power District Service Charge Act,* 1930, to fix a maximum service charge for any class of service in a rural power district. Where as may be the case in newly-established rural power districts such maximum service charge is not sufficient to meet the necessary cost of service, as specified by the Commission, the deficit is chargeable to and payable out of the Consolidated Revenue Fund of the Province. Payments made out of the Consolidated Revenue Fund for this purpose, on account of any rural power district, are charged to that rural power district in a special account—known as the "Rural Power Service Suspense Account"—in the books of the Treasurer of Ontario, and any surplus thereafter arising from any maximum service charge in that rural power district is paid to the Treasurer of Ontario and placed to the credit of the rural power district in such suspense account until the deficit is wiped out. Where a temporary deficit arises in any rural power district owing to the application of the maximum service charge, such maximum service charge must remain in force and be charged in that rural power district until the deficit is wiped out.

Third—An Act—*The Rural Power District Loans Act,* 1930—to provide for granting aid towards the installation of electrical works in rural power districts was passed in 1930. The purpose of the Act is to provide, subject to regulations, advances toward the installation of electrical services in rural power districts. Aid may be granted for the wiring from the transmission or distribution lines of the Commission into and throughout dwellings, farms, out-houses, and any other works which may from time to time be specified by the regulations. In addition to the wiring, loans may be obtained on transformers, motors, or other appliances, as may be necessary or expedient for any industrial, agricultural or domestic purpose which may be specified in the regulations.

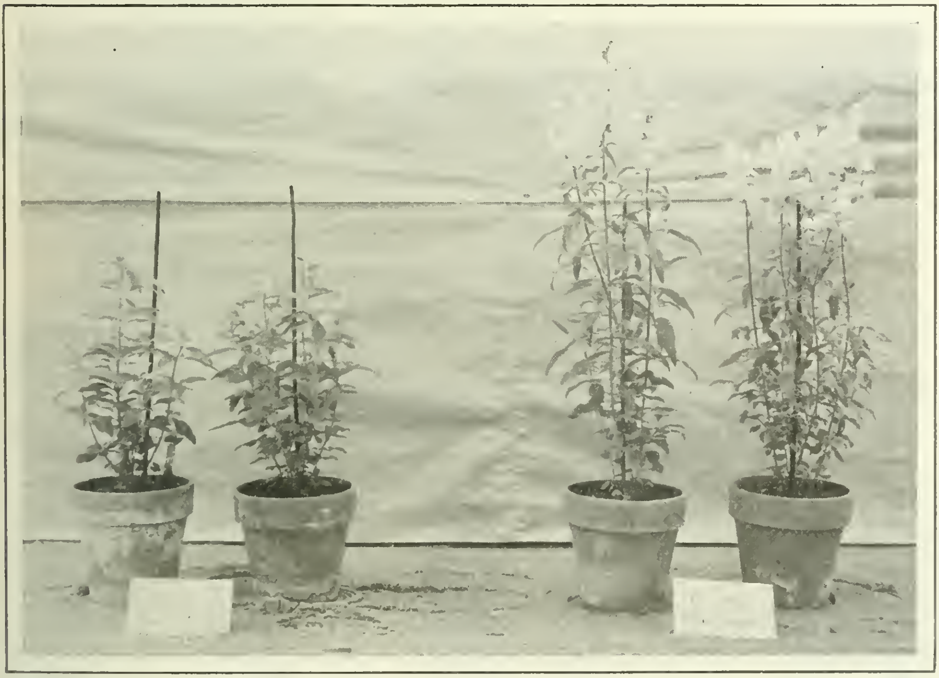
Rural Loans

Under *The Rural Power District Loans Act,* 1930, authority was given to The Hydro-Electric Power Commission of Ontario, to finance the installation of wiring and the purchase of specified electrical equipment by rural farm consumers.

As all applications for loan are governed by regulations made subject to the provisions of the Act, quite a number fail to meet the requirements of these regulations, so that out of a total of 1,375 applications received to date, 22 were in process and 989 had been approved, involving an outlay of $202,147.



RURAL ELECTRICAL SERVICE IN ONTARIO
Showing the response of stocks to electric light supplementing sunlight. The plants on the right received the normal winter daylight only, those on the left received in addition electric light, which increased the effective length of day



RURAL ELECTRICAL SERVICE IN ONTARIO
Snap Dragon, variety Afterglow, showing their response to electric light supplementing daylight. The plants on the left received normal winter daylight only, those on the right received in addition electric light to increase the effective length of the day

To October 31, 1937, 252 loans had been repaid in full, either through the maturing of the loan or because of the improved financial position of the borrower.

During the fiscal year ending October 31, 1937, there were received 230 applications and 155 loans were made, totalling $29,615.

SUMMARY OF LOANS MADE TO OCTOBER 31st, 1937

Fiscal year ending Oct. 31	Applications received	Applications Approved	Amount of loans
			$
1931	126	74	23,542
1932	226	187	40,160
1933	144	111	20,975
1934	107	81	14,855
1935	235	169	32,450
1936	307	212	40,550
1937	230	155	29,615
Total	1,375	989	202,147

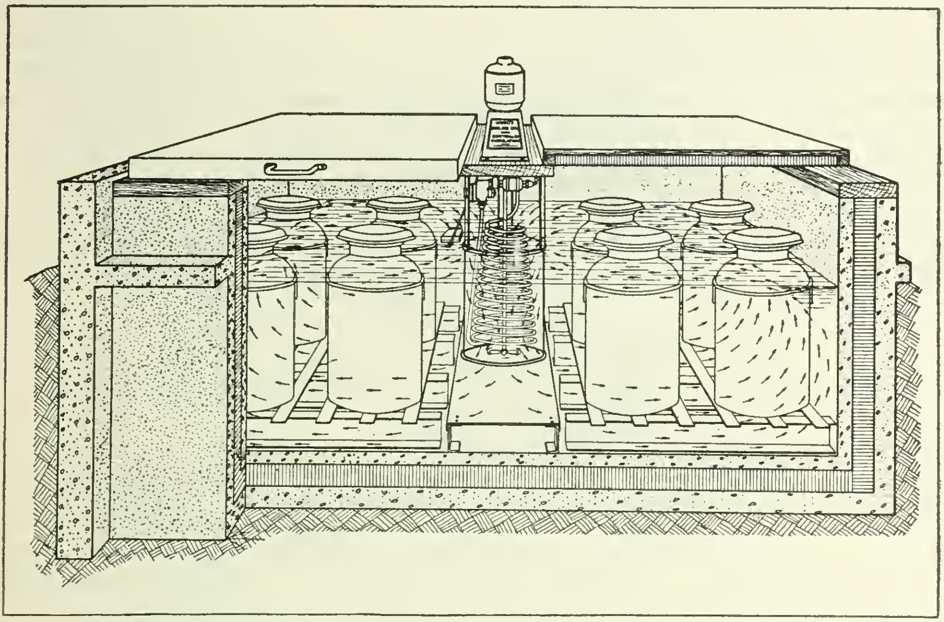
LOANS GRANTED TO CONSUMERS IN RURAL POWER DISTRICTS

System	Total to Oct. 31, 1936		Nov. 1, 1936, to Oct. 31, 1937		Total to Oct. 31, 1937	
	No.	Amount	No.	Amount	No.	Amount
		$		$		$
Niagara	689	134,410	138	26,415	827	160,825
Georgian Bay	108	28,712	9	1,630	117	30,342
Eastern Ontario	31	8,015	8	1,570	39	9,585
Thunder Bay	1	335	......	....	1	335
Manitoulin R.P.D.	5	1,060	......	....	5	1,060
All systems	834	172,532	155	29,615	989	202,147

The average loan is $204.40.

DETAILS OF RURAL LOANS GRANTED TO OCTOBER 31, 1937

Items applied for (including installation) in loans which have been made	Totals for 834 loans made to October 31, 1936		Totals for 155 loans made during year to October 31, 1937		Totals for 989 loans made to October 31, 1937	
	Number affected	Cost to consumers	Number affected	Cost to consumers	Number affected	Cost to consumers
		$ c.		$ c.		$ c.
Service	275	15,110.28	66	3,604.06	341	18,714.34
House wiring	273	24,812.67	67	5,069.66	340	29,882.33
Building wiring	279	21,679.64	61	4,351.50	340	26,031.14
Motors	46	4,770.96	2	191.00	48	4,961.96
Grain grinders	511	98,760.97	54	10,820.00	565	109,580.97
Pumping systems	53	6,930.45	24	3,781.27	77	10,711.72
Milking machines	8	2,066.00	4	1,270.00	12	3,336.00
Washing machines	32	3,396.00	2	191.50	34	3,587.50
Milk coolers	24	4,953.00	12	2,375.00	36	7,328.00
Ranges	...	....	1	165.00	1	165.00
Totals	...	182,479.97	...	31,818.99	...	214,298.96



RURAL ELECTRICAL SERVICE IN ONTARIO

Milk cooling by electric refrigeration with agitation is now being used by progressive Ontario farmers to their economic advantage. It is reported that this method of cooling is less expensive, more reliable and certainly cleaner than ice

Respecting the 989 loans made to October 31, 1937, the following table shows the number of loans made for each term of years:

One year term	18 loans	Six year term	10 loans
Two " "	27 "	Seven " "	79 "
Three " "	139 "	Eight " "	9 "
Four " "	30 "	Nine " "	0 "
Five " "	639 "	Ten " "	38 "

During the past two years there have been no loans made for periods longer than 5 years.

On November 1, 1937, the interest rate on rural loans was reduced from 6 per cent to 5 per cent per annum. This reduction applied to loans outstanding at October 31, 1937, as well as to new loans consummated after that date. The effect of this reduction is to lower the amount of interest ultimately due on outstanding loans by $1,227.19.

Provincial Assistance to Rural Consumers

The extent and effect of the Province's financial assistance with respect to the distribution of power in rural power districts should be clearly understood. The Government grant-in-aid relates solely to the initial capital investment for distribution facilities in rural power districts. Having made its grant-in-aid the Government further participates in the operation of each district in that it guarantees a maximum service charge, otherwise its participation in the operation of the property ceases. Each rural power district pays the cost of operation, maintenance and administration of its lines. The Commission also set up, until October 31, 1935, reserves for renewals (depreciation), obsolescence and contingencies on the whole of the equipment and lines, as well as sinking fund on the investment made by the Commission on behalf of the townships served. Beginning November 1, 1935, however, no further provision will be made for contingencies as it is considered that the present accumulated contingency fund is sufficient to take care of this situation; similarly the renewals (depreciation) charges have been reduced by one-eighth for the year 1936 and by one-half for the year 1937 and until further consideration is given to the problem.

RURAL LINE EXTENSIONS APPROVED BY THE COMMISSION DURING THE YEAR 1937

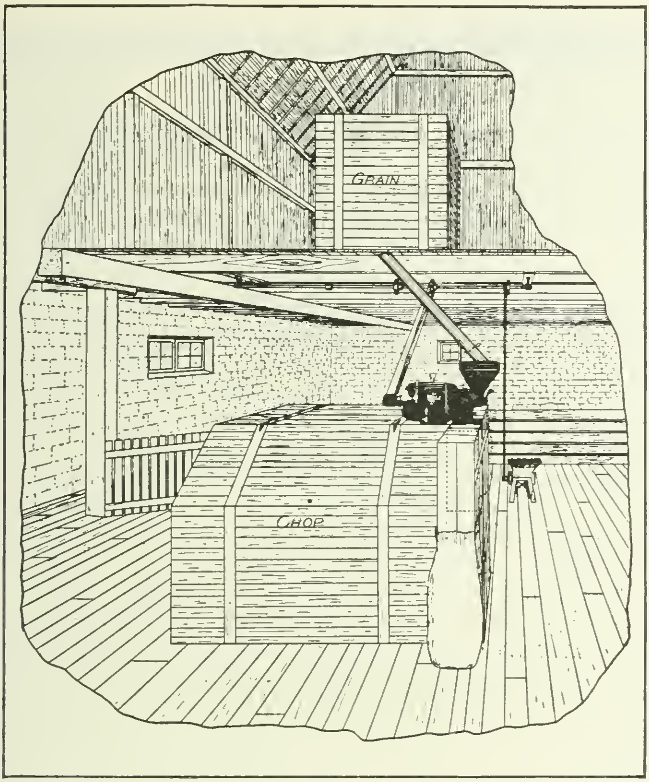
System	Miles of primary line	Net increase in number of consumers			Power supplied in October, 1937	Capital approved for extensions	
		Hamlet	Farm etc.	Total		Total	Provincial grant-in-aid
					h.p.	$ c.	$ c.
Niagara	1,173.54	1,610	5,541	7,151	37,990	3,059,640.00	1,529,820.00
Georgian Bay	484.09	1,142	1,283	2,425	4,075	1,140,363.00	558,661.50
Eastern Ontario	617.60	682	2,163	2,845	8,173	1,480,766.00	740,383.00
Thunder Bay	10.70	40	43	83	210	25,717.00	12,858.50
Manitoulin R.P.D.	9.90	24	19	43	137	27,818.00	13,909.00
Northern Ontario Properties:							
Nipissing District	1.09	28	5	33	173	8,757.00	4,378.50
Totals	2,296.91	3,526	9,054	12,580	50,758	5,743,061.00	2,860,010.50

SUMMARY OF RURAL LINE EXTENSIONS

As Approved by the Commission from June 1, 1921 to October 31, 1937, Constructed or Under Construction

System	Miles of primary line	Number of consumers			Capital approved for extensions	
		Hamlet	Farm, etc.	Total	Total	Provincial grant-in-aid
					$ c.	$ c.
Niagara	8,753.65	26,873	31,798	58,671	20,222,117.89	10,087,778.94
Georgian Bay	1,593.90	6,601	3,690	10,291	3,505,513.95	1,693,543.99
Eastern Ontario	2,604.64	8,809	7,248	16,057	5,955,211.31	2,977,605.65
Thunder Bay	97.10	213	226	439	184,939.00	92,469.50
Manitoulin R.P.D.	47.15	188	44	232	74,820.00	37,410.00
Northern Ontario Properties:						
Nipissing District	20.55	448	56	504	93,356.00	46,678.00
Totals	*13,116.99	43,132	43,062	86,194	30,035,958.15	14,935,486.08

*Note—This total includes 471.30 miles of primary line under construction on October 31, 1937, required to serve 2,120 new consumers.



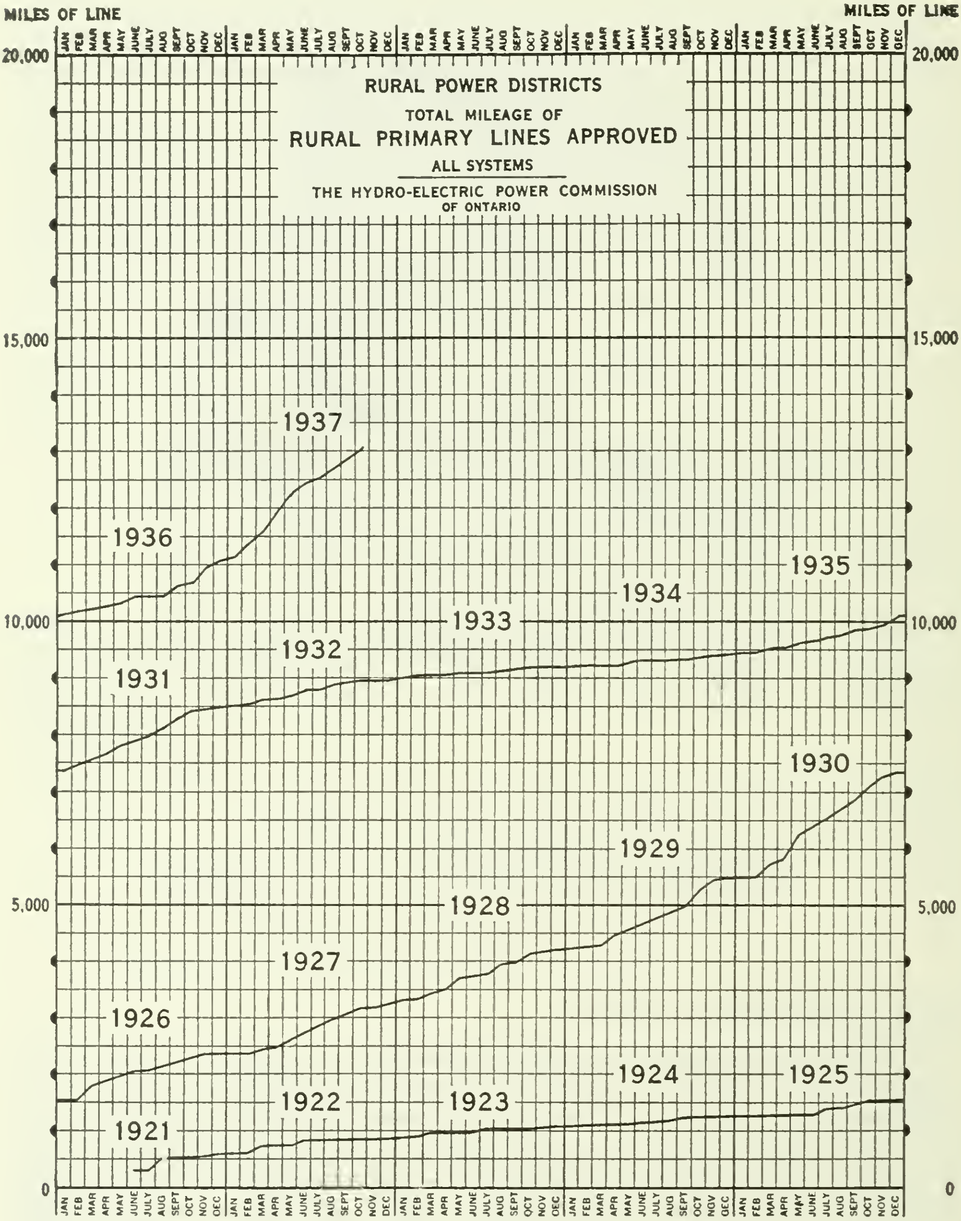
RURAL ELECTRICAL SERVICE IN ONTARIO

The utility-motor chopper set up as shown, permits chopping to be done while the operator is otherwise employed in the barn. The line shafting, when belted to the motor, will supply power for many other machines used in the barn

Rates for Rural Electrical Service

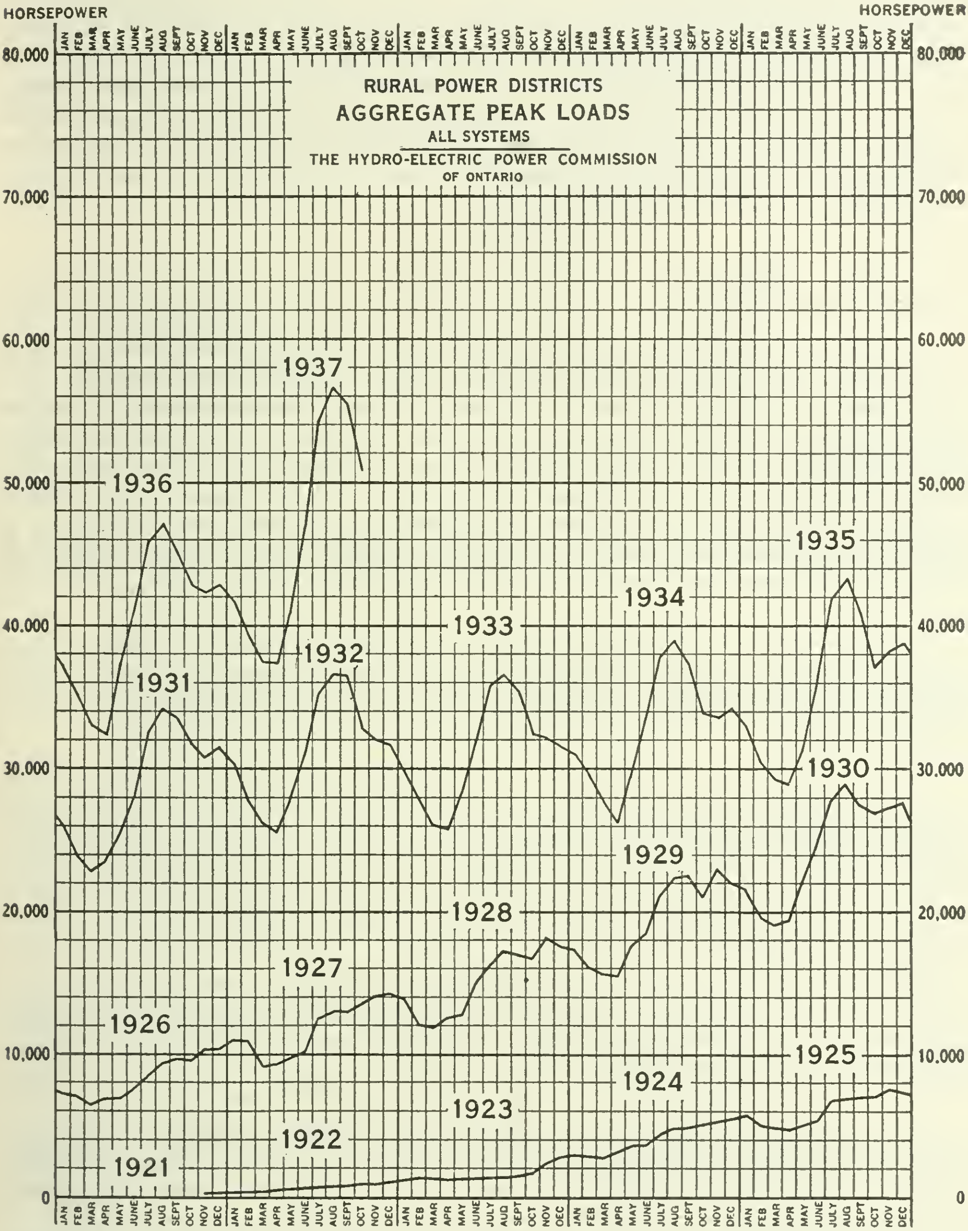
Rates to rural consumers are based upon service "at cost"—account being taken of the Provincial "grant-in-aid" for rural work and the operation of the provision for a maximum service charge—and as in some urban centres the rates are made up of two parts, a service charge and a consumption charge. In any rural power district the service charge to a consumer depends primarily upon the individual connected load or demand which determines his class rating (see "Classification of Services") but this is modified in the earlier years of operation of a rural power district by the provision respecting maximum service charge; the consumption charge is based upon a first, second and third kilowatt-hour rate, the first and second rate being determined by the cost of power at the source of supply to the rural power district, and the third rate is the same for all consumers.

Each mile of line is assumed to represent a minimum of 15 units and to each class of service is assigned a value in such units. The table on page 99



gives the new maximum net service charge per month applicable to each class of service. More than 90 per cent of the contracts entered into for farm service are either Class 2B or Class III. These, therefore, are the representative classes for individual farm service.

About one-half of the consumers in rural power districts are grouped in hamlets or small villages closely identified with rural activities, and these



consumers are usually in Class 1B or Class 1C. It is pointed out that rural power districts do not include suburban districts or larger villages. These have their own electrical utilities.

The lowering of the maximum service charges, has however, resulted in more uniform and more nearly equal costs to the respective classes of consumers in practically all rural power districts, served by the Commission.

These maximum rural service charges, under prevailing conditions, do not cover the costs incurred to serve rural consumers. It is anticipated, however, that the increase in the number of consumers served per mile, and increased use of power by all rural consumers, will enable the Commission more nearly to meet all costs. In rural power districts where this condition cannot be obtained, deficits arising out of the application of the maximum service charge will be paid by the Province of Ontario as a loan until the rural power districts concerned operate with a surplus.

Contracts with Consumers

For many years, power agreements made between rural customers and townships were for a twenty-year period. When rural power service was inaugurated on a principle of service at cost, this period was considered advisable for all rural contracts in order to protect the interests of the rural consumers themselves, as partners embarking in an undertaking involving collective responsibility for a substantial capital investment, to be liquidated over a period of years. The contract provision thus constituted, as between consumers, a mutual guarantee with respect to service charges. Without such assurance extensions in the early years would have been greatly hampered.

As the number of consumers on the rural lines constructed increased and rural consumers, generally, throughout the Province became better informed as to the possible uses of electric power on the farm, rural electrical service became well established.

In 1934 the Commission announced that a recommendation had been made to all township municipalities that they should pass a by-law, authorizing the Commission to reduce the term of existing and future rural contracts from twenty to five years in certain cases. These contracts were to continue in force from year to year after the expiration of the five-year period.

It is provided, however, that this change in contract term shall not take effect unless and until the Councils of all the various townships forming part of each rural power district pass by-laws approving such amendment in existing and future rural power districts.

A consumer, who has a loan under *The Rural Power District Loans Act,* shall not be entitled to avail himself of cancellation of his rural contract with the township until after all obligations under the said loan have been discharged.

This change in term of contract does not apply to "guarantee contracts."

At the end of 1937, all townships had passed the necessary by-law, and five-year agreements are available in all rural power districts.

At the end of this section a tabulation of the rural power districts shows the miles of line, the number of consumers and the rate schedules now in force for each district of the several systems.

CLASSIFICATION OF SERVICES FOR RURAL POWER DISTRICTS

When contracts between the consumer and the township have been executed, users of power in townships are supplied with electric service under general classes, according to the requirements and conditions of the individual consumer, as follows:

Class	Service	Class demand kilowatts	Phase	Volts	Fuse rating amperes (maximum)
1B	Hamlet Lighting	1.32	1	110	20
1C	" "	2	1	220–110	35
2A	House Lighting	1.32	1	110	20
2B	Small Farm Service	2	1	220–110	35
3	**Light Farm Service**	**3**	**1**	**220–110**	**35**
4	Medium Farm Service	5	1	220–110	50
5	" " "	5	3	220–110	35
6A	Heavy Farm Service	9	1	220–110	100
6B	" " "	9	1 and 3	220–110	60
7A	Special Farm Service	15	1	220–110	According to load
7B	" " "	15	1 and 3	220–110	According to load

Class 1: Hamlet Service—Includes service to consumers (other than farm and power users) in hamlets, where four or more consumers are served from one transformer. Service is given under two sub-classes as follows:

> **Class 1-B:** Service to residences or stores, including use of portable appliances, and permanently installed appliances not exceeding 1,320 watts.
>
> **Class 1-C:** Service to residences or stores with electric range or ordinary permanently installed appliances greater than 1,320 watts. Where a combination of residence and store can be supplied from one service, the combination is billed as a single Class 1-C consumer. Special or unusual loads will be treated specially.

Class 2-A: House Lighting—Includes service to all consumers other than farm and power users that cannot be grouped as in Class 1.

Class 2-B: Farm Service, Small—Includes service for lighting of farm buildings, power for miscellaneous small equipment and power for single-phase motors not exceeding 2 horsepower and electric range if motors and range are not used simultaneously, on a farm of fifty acres or less.

Class 3: Farm Service, Light—Includes service for lighting of farm buildings, power for miscellaneous small equipment and power for single-phase motors not exceeding 3 horsepower and electric range if motors and range are not used simultaneously.

Class 4: Farm Service, Medium Single-Phase—Includes service for lighting of farm buildings, power for miscellaneous small equipment, and power for single-phase motors up to 5 horsepower demand and electric range if motors and range are not used simultaneously.

Class 5: Farm Service, Medium 3-Phase—Includes service for lighting of farm buildings, power for miscellaneous small equipment and power for 3-phase motors up to 5-horsepower demand and electric range if motors and range are not used simultaneously.

Class 6: Farm Service, Heavy—Includes service for lighting of farm buildings, power for miscellaneous small equipment and power for motors up to 5-horsepower demand and an electric range, or 10-horsepower demand without an electric range. Single- or three-phase service will be given at the discretion of The Hydro-Electric Power Commission of Ontario.

Class 7: Farm Service, Special—Includes service for lighting of farm buildings, power for miscellaneous small equipment, power for 3-phase motors from 10- to 20-horsepower demand and electric range. Single- or three-phase service will be given at the discretion of The Hydro-Electric Power Commission of Ontario.

Note: Classes 2B to 7B are designed primarily to cover the service requirements of farmers. Consumers other than farmers who require a more comprehensive service with greater demand than is provided for in classes 1B, 1C and 2A may obtain this service upon payment of the specified service charge listed in the table of rates.

Note: Class 2B is the service usually supplied to farms of fifty acres or less and Class 3 is the service usually supplied to larger farms. More than 90 per cent of new contracts for farm service are in one or other of these classes.

RURAL POWER DISTRICTS—MILES OF LINE, NUMBER OF CONSUMERS AND RATES—OCTOBER 31, 1937

Rural power district	Property number	Miles of line	No. of consumers	Rural rates											Gross consumption charges per kilowatt-hour			Prompt payment discount on gross bill
			Class.....	1B	1C	2A	2B	**3***	4	5	6A	6B	7A	7B	First energy rate	Second energy rate	Rate for all additional	
			Monthly consumption charged for at first energy rate: No. of kw-hrs. per month	30	30	30	30	**42**	70	70	126	126	210	210				
			Monthly consumption charged for at second energy rate: No. of kw-hrs. where first energy rate is less than 3 cts	120	270	120	270	**258**	430	430	774	774	1290	1290				
			3 cts......	105	240	105	240	**228**	380	380	684	684	1140	1140				
			3.1 to 4 cts.....	75	180	75	180	**168**	280	280	504	504	840	840				
			4.1 to 5 cts.....	60	150	60	150	**138**	230	230	414	414	690	690				
			more than 5 cts.	45	120	45	120	**108**	180	180	324	324	540	540				
			Maximum gross monthly service charge to Summer cottages. Where the rates are below these standards, they are indicated in each instance by †	$ c. 1.11	$ c. 1.56	$ c. 1.11	$ c. 1.56	$ c. **1.56**	$ c. 1.56	$ c. 2.50	$ c. 2.78	$ c. 2.78	$ c. 3.33	$ c. 3.33				
				Gross monthly service charge to regular consumers														
NIAGARA SYSTEM																		
				$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	cents	cents	cents	%
Acton................	N5 D1	12.24	37	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
Ailsa Craig............	N4 D7	9.65	25	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Alvinston............	N18 D9	15.30	30	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Amherstburg..........	N15 D3	88.55	744	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	3.5	2	0.75	10
Aylmer..............	N11 D2	183.62	998	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	4.5	2	0.75	10
Ayr..................	N12 D4	29.74	113	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75	10
Baden................	N7 D1	125.20	590	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75	10
Beamsville............	N44 D3	195.28	1,778	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75	10
Belle River...........	N15 D2	51.58	480	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75	10
Blenheim............	N14 D3	86.30	463	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75	10
Bond Lake...........	N3 D3	190.78	1,973	1.10	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75	10
				†1.10	1.56	1.11	1.56	**1.56**	1.56	2.50	2.78	2.78	3.33	3.33				
Bothwell............	N14 D10	74.97	266	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
Brampton............	N13 D2	71.66	247	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75	10
Brant...............	N12 D1	166.65	861	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75	10
Brigden.............	N18 D8	45.29	152	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Burford.............	N12 D2	73.63	380	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	4.5	2	0.75	10
Caledonia............	N2 D5	141.25	742	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75	10
Chatham............	N14 D1	199.55	1,115	1.11	1.11	1.11	1.11	**1.11**	1.56	2.55	2.78	2.78	3.33	3.33	3.5	2	0.75	10
Chippawa............	N1 D7	31.96	224	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	3.5	2	0.75	10
Clinton.............	N8 D11	82.61	462	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10

Delaware	N4 D3	150.58	766	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75	10
Dorchester	N4 D1	131.21	715	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75	10
Dresden	N14 D12	59.74	201	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Drumbo	N12 D5	77.85	353	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75	10
Dundas	N2 D1	148.62	946	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	3	1.25	0.75	10
Dunnville	N1 D9	55.52	276	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
				§1.00	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	3.5	2		
				§§1.00	1.56	1.11	1.56	**1.56**	1.56	2.50	2.78	2.78	3.33	3.33				
Dutton	N11 D3	66.54	245	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	3.78	3.33	3.33	6	2	0.75	10
Elmira	N7 D3	26.05	110	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75	10
Elora	N5 D4	60.89	322	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75	10
Essex	N15 D7	116.37	607	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	4.5	2	0.75	10
Exeter	N4 D6	89.24	801	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
Forest	N18 D6	69.17	288	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Galt	N6 D2	47.74	403	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75	10
Georgetown	N5 D2	69.49	339	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75	10
Goderich	N8 D2	55.60	235	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
Grantham	N44 D1	63.99	920	1.00	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75	10
				†1.00	1.50	1.11	1.56	**1.56**	1.56	2.50	2.78	2.78	3.33	3.33				
Guelph	N5 D3	123.80	729	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75	10
Haldimand	N2 D8	128.08	563	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	4.5	2	0.75	10
Harriston	N8 D5	25.84	76	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
Harrow	N15 D4	77.19	784	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	4.5	2	0.75	10
Ingersoll	N10 D3	204.61	728	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	5.5	2	0.75	10
Jordan	N44 D2	47.54	449	1.06	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75	10
				†1.06	1.56	1.11	1.56	**1.56**	1.56	2.50	2.78	2.78	3.33	3.33				
Keswick	N3 D5	72.26	1,278	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75	10
Kingsville	N15 D5	169.89	1,773	1.00	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	3	2	0.75	10
				†1.00	1.56	1.11	1.56	**1.56**	1.56	2.50	2.78	2.78	3.33	3.33				
Listowel	N8 D8	85.50	391	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75	10
London	N4 D2	214.60	2,580	0.90	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75	10
				†0.90	1.56	1.11	1.56	**1.56**	1.56	2.50	2.78	2.78	3.33	3.33				
Lucan	N4 D5	69.36	224	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Lynden	N2 D2	73.35	312	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75	10
Markham	N3 D1	152.08	1,199	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75	10
Merlin	N14 D15	118.60	466	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
Milton	N13 D3	83.87	417	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75	10
Milverton	N8 D9	55.61	225	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75	10
Mitchell	N8 D7	83.59	424	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	4.5	2	0.75	10
Newmarket	N3 D4	83.32	515	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75	10
Niagara	N1 D1	55.04	377	1.11	1.11	1.11	1.11	**1.11**	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75	10

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*See footnote on page 109.

†Summer Cottage rates.

§Lowbanks extension regular rates.

§§Lowbanks extension summer cottage rates.

RURAL POWER DISTRICTS—MILES OF LINE, NUMBER OF CONSUMERS AND RATES—OCTOBER 31, 1937—Continued.

Rural power district	Rural rates																	
	Class..........			1B	1C	2A	2B	3*	4	5	6A	6B	7A	7B	Gross consumption charges			Prompt payment discount
	Property number	Miles of line	No. of consumers	Gross monthly service charge to regular consumers											First energy rate‡	Second energy rate‡	Rate for all additional	
NIAGARA SYSTEM—Continued																		
				$ c.	$ c.	$ c.	$ c.	$ c.	$ c,	$ c.	$ c.	$ c.	$ c.	$ c.	cents	cents	cents	%
Norwich.............	N10 D1	149.03	693	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3.5	2	0.75	10
Oil Springs............	N18 D3	32.33	153	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Palmerston............	N8 D6	57.12	180	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75	10
Petrolia..............	N18 D5	23.09	107	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Preston..............	N6 D1	166.85	1,308	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	1.25	0.75	10
Ridgetown............	N14 D2	119.00	812	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75	10
St. Jacobs............	N7 D2	80.03	447	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75	10
St. Marys............	N9 D1	148.29	567	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
St. Thomas............	N11 D1	207.28	1,373	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75	10
Saltfleet.............	N17 D1	100.58	1,877	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75	10
Sandwich............	N15 D1	137.39	2,237	1.00	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3.5	1.5	0.75	10
				†1.00	1.56	1.11	1.56	1.56	1.56	2.50	2.78	2.78	3.33	3.33				
Sarnia...............	N18 D4	108.13	1,575	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3.5	2	0.75	10
Scarboro.............	N3 D2	103.48	1,158	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75	10
Seaforth..............	N8 D10	17.76	156	1.10	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75	10
				†1.10	1.56	1.11	1.56	1.56	1.56	2.50	2.78	2.78	3.33	3.33				
Simcoe..............	N12 D6	101.08	590	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75	10
Stamford............	N44 D4	9.44	305	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75	10
Stratford............	N8 D4	40.73	248	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3.5	2	0.75	10
Strathroy............	N4 D4	121.24	387	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Streetsville...........	N13 D1	118.74	558	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3.5	2	0.75	10
Tavistock............	N8 D1	113.76	427	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
Thamesville..........	N14 D11	93.01	380	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Tilbury..............	N14 D14	120.97	496	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
Tillsonburg...........	N10 D4	158.77	816	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3.5	2	0.75	10
Wallaceburg..........	N14 D13	142.16	820	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75	10
Walsingham...........	N12 D7	214.13	1,060	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Walton..............	N8 D3	61.07	344	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Waterdown...........	N2 D3	80.23	1,067	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	2.5	1	0.75	10
Waterford............	N12 D3	101.15	441	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
Watford.............	N18 D7	32.18	102	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Welland.............	N1 D5	301.66	3,128	1.00	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75	10
				†1.00	1.56	1.11	1.56	1.56	1.56	2.50	2.78	2.78	3.33	3.33				

Woodbridge	N16	D1	243.15	1,306	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	2	0.75	10
Woodstock	N10	D2	161.28	836	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	2	0.75	10
Total, Niagara system			8,753.65	58,671															

*See footnote on page 109. †Summer cottage rates. ‡See heading to first page of table

GEORGIAN BAY SYSTEM

					$ c.	$ c,	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	cents	cents	cents	%
Alliston	S32	D1	43.69	224	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Arthur	E13	D2	2.40	12	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Bala	GB13	D1	56.30	360	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
Barrie	S4	D1	85.74	698	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
Baysville	M10	D1	36.81	213	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Beaumaris	M7	D1	64.74	438	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
Beaverton	W2	D1	41.66	451	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
Beeton	S33	D1	1.80	5	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Bradford	S37	D1	36.88	123	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Bruce	E19	D1	97.39	463	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
Buckskin	S24	D1	1.75	23	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Cannington	W3	D1	15.02	72	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Chatsworth	E3	D1	....	22	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Cookstown	S35	D1	0.90	3	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Creemore	S10	D2	60.42	220	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
Dundalk	E5	D1	6.99	28	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Elmvale	S7	D1	44.18	218	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5.5	2	0.75	10
Flesherton	E1	D1	20.35	100	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Gravenhurst	M4	D1	11.59	48	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
Hawkestone	S9	D1	55.60	307	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75	10
Holstein	E7	D1	0.50	9	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Huntsville	M2	D1	79.10	333	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
Innisfil	S31	D1	42.07	810	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Kirkfield	W6	D1	9.89	50	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Lucknow	E24	D1	7.91	29	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Mariposa	W9	D1	55.06	357	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Markdale	E1	D2	20.85	90	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Meaford	E14	D1	24.84	158	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Medonte	S18	D1	44.16	193	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
Midland	S1	D1	66.24	426	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10

RURAL POWER DISTRICTS—MILES OF LINE, NUMBER OF CONSUMERS AND RATES—OCTOBER 31, 1937—Continued.

Rural power district	Rural rates																	
	Class..........			1B	1C	2A	2B	3*	4	5	6A	6B	7A	7B	Gross consumption charges			Prompt payment discount
	Property number	Miles of line	No. of consumers	Gross monthly service charge to regular consumers											First energy rate‡	Second energy rate‡	Rate for all additional	
				$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	cents	cents	cents	%
Minden	G37 D1	20.76	111	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
Neustadt	E8 D1	0.76	7	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
Nottawasaga	S5 D1	8.22	108	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
Orangeville	E12 D1	66.57	216	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Owen Sound	E2 D1	39.97	175	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
Port Perry	W12 D1	55.39	471	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Ripley	E24 D2	36.92	100	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Sauble	E46 D1	23.20	169	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Shelburne	E10 D1	19.37	65	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
South Falls	M1 D1	0.10	4	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Sparrow Lake	W1 D1	43.63	412	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75	10
Tara	E15 D1	48.96	205	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Thornton	S36 D1	8.14	34	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Tottenham	S34 D1	6.90	14	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Utterson	M8 D1	41.76	219	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Uxbridge	W11 D1	65.80	229	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Wasaga Beach	S10 D1	25.06	930	†1.00	1.75	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.5	1.5	....	10
Wroxeter	E22 D1	47.56	339	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Total, Georgian Bay system		1,593.90	10,291															

‡See heading to first page of table

*See footnote on page 109. †These rates apply to regular consumers and summer cottages.

EASTERN ONTARIO SYSTEM

Rural power district	Property number	Miles of line	No. of consumers	1B	1C	2A	2B	3*	4	5	6A	6B	7A	7B	First energy rate‡	Second energy rate‡	Rate for all additional	Prompt payment discount
Alexandria	L15 D1	37.29	180	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Arnprior	QM10 D1	9.32	80	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Belleville	C38 D1	137.20	898	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3.5	1.5	0.75	10
Bowmanville	C23 D1	49.36	224	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
Brighton	C6 D1	15.19	81	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Brockville	L3 D1	120.91	832	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Campbellford	C11 D1	31.30	120	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Carleton Place	H5 D1	1.16	4	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Chesterville	L5 D1	104.93	617	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Cobourg	C13 D1	143.37	680	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
Colborne	C7 D1	59.45	303	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
Fenelon Falls	C30 D1	78.62	494	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10

Iroquois	L9	D1	104.87	551	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Kemptville	H9	D1	5.43	54	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Kingston	C44	D1	211.13	1,183	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
Lakefield	C18	D1	49.07	197	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Marmora	C47	D1	3.85	28	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Martintown	L13	D1	37.68	216	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Maxville	L14	D2	87.82	536	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Millbrook	C25	D1	28.37	160	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Napanee	C43	D1	211.58	931	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
Nepean	T1	D1	221.81	1,426	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	1.5	0.75	10
Newcastle	C22	D1	31.45	143	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Norwood	C31	D1	25.73	154	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Omemee	C26	D1	5.55	14	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Oshawa	C24	D1	168.57	1,976	1.00	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	3	1.75	0.75	10
					†1.00	1.56	1.11	1.56	1.56	1.56	2.50	2.78	2.78	3.33	3.33				
Perth	H2	D1	21.86	106	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Peterborough	C20	D1	87.52	1,315	0.63	1.11	0.79	1.11	1.11	1.56	2.01	2.57	2.78	3.33	3.33	4	2	0.75	10
					†0.63	1.16	0.79	1.21	1.56	1.56	2.01	2.57	2.78	3.33	3.33				
Prescott	L2	D1	55.40	273	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Renfrew	QM16	D1	33.25	232	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Smiths Falls	H3	D1	87.60	524	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Stirling	C35	D1	32.16	139	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
Sulphide	C34	D1	15.31	55	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Trenton	C3	D1	81.40	353	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	5	2	0.75	10
Warkworth	C49	D1	11.45	47	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Wellington	C45	D1	161.36	736	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Williamsburg	L7	D1	36.32	195	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Total, Eastern Ontario system			2,604.64	16,057															

*See footnote on page 109. †Summer cottage rates. ‡See heading to first page of table.

THUNDER BAY SYSTEM

Fort William	P10	D1	65.46	259	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75	10
Port Arthur	P2	D1	31.64	180	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	4	2	0.75	10
Total, Thunder Bay system			97.10	439															

MANITOULIN RURAL POWER DISTRICT

Manitoulin	MR1	D1	47.15	232	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10

NORTHERN ONTARIO PROPERTIES—NIPISSING DISTRICT

North Bay	Z4	D1	16.45	485	0.87	1.11	1.01	1.11	1.11	1.56	2.17	2.68	2.78	3.33	3.33	6	2	0.75	10
					†0.87	1.38	1.01	1.38	1.44	1.56	2.17	2.68	2.78	3.33	3.33				
Powassan	Z8	D1	4.10	19	1.11	1.11	1.11	1.11	1.11	1.56	2.50	2.78	2.78	3.33	3.33	6	2	0.75	10
Total, Nipissing district			20.55	504															

Total, all systems: Miles of line, 13,116.99§ Number of consumers, 86,194. *See footnote on page 109. ‡See heading to first page of table.

†Summer cottage rates. §This total includes 471.30 miles of primary line under construction on October 31, 1937, to serve 2,120 new consumers.

SECTION IV

HYDRAULIC ENGINEERING AND CONSTRUCTION

ACTIVITIES in connection with hydraulic engineering and construction covered a wide field during the year and included works both in connection with co-operative systems and the Northern Ontario properties.

Co-Operative Systems

The commencement of a new hydro-electric plant on the Musquash river at Ragged rapids to meet the growing demands of the Georgian Bay system was the chief new construction work undertaken during the year. In the Eastern Ontario system, the five small generating plants on the Trent and Otonabee rivers, recently purchased by the Commission, were overhauled and re-conditioned to enable them to function as parts of the co-ordinated supply for eastern Ontario.

Northern Ontario Properties

Construction was active in several districts of northern Ontario and included the completion of extensions to the Ear Falls and Rat Rapids plants; the inception of the work on a storage dam on the Frederick House river to improve flow conditions at the Abitibi river plants; and the commencement of work on a control dam on the Kenogami river in connection with the Long Lac diversion and on the Long Lac diversion canal and regulating dam. In the Sudbury district the recently purchased plant at Crystal Falls on the Sturgeon river was overhauled and put in good operating condition.

The great activity in the mining districts of northern Ontario has led to additional hydraulic investigations and surveys. Further reference to these is given below.

NIAGARA SYSTEM

In canvassing the various sources of power to augment the supply to the Niagara system, the question of utilizing the DeCew Falls development as a peak load plant has been under further consideration. In order that the possi-

LONG LAC DIVERSION
Canal excavation by dragline

LONG LAC DIVERSION
Looking up-stream from site of regulating dam 5½ miles below south end of Long Lac

bilities of this source might be definitely determined, detailed surveys were made of the whole site. The area covered included the present intake, the supply canal, storage reservoirs and forebay, part of Twelve Mile creek which forms the tailrace between the plant and the old Welland canal, and the old Welland canal itself down to Port Dalhousie. The surveys were carried out during the summer of 1937.

Water Diversions

The diversion of water from other watersheds into Great Lakes' waters, which would have a bearing upon the water power available to the Niagara system from the Niagara river, has been under consideration for some time. One of the suggested schemes, known as the "Long Lac Diversion," was studied in connection with a proposal to use such a diversion to float pulpwood from the Kenogami area down to lake Superior. The scheme, as finally developed, comprises a control dam on the Kenogami river fifteen miles below the outlet of Long lake, a channel excavated from the south end of the lake across the divide, improvements in natural channels, and a regulating dam and log-slide five and one-half miles south of Long lake, through which diverted waters and pulpwood will pass to reach the Aquasabon river, and, eventually, lake Superior.

Under an arrangement with the Provincial government, work was commenced on this scheme this year. A contract was let for the construction of the diversion channel leading from Long lake over the divide into the lake Superior watershed and of the regulating dam at the southerly end of the channel. The diversion channel will be about five and one-half miles long, with sufficient capacity to handle the ultimate diversion. The regulating dam at the southerly end of the channel will consist of four concrete structures, of which one will be a bulkhead section, one a section with two stop-log sluices, one with the log sluice, and the remaining one with a stop-log sluice and a fishway.

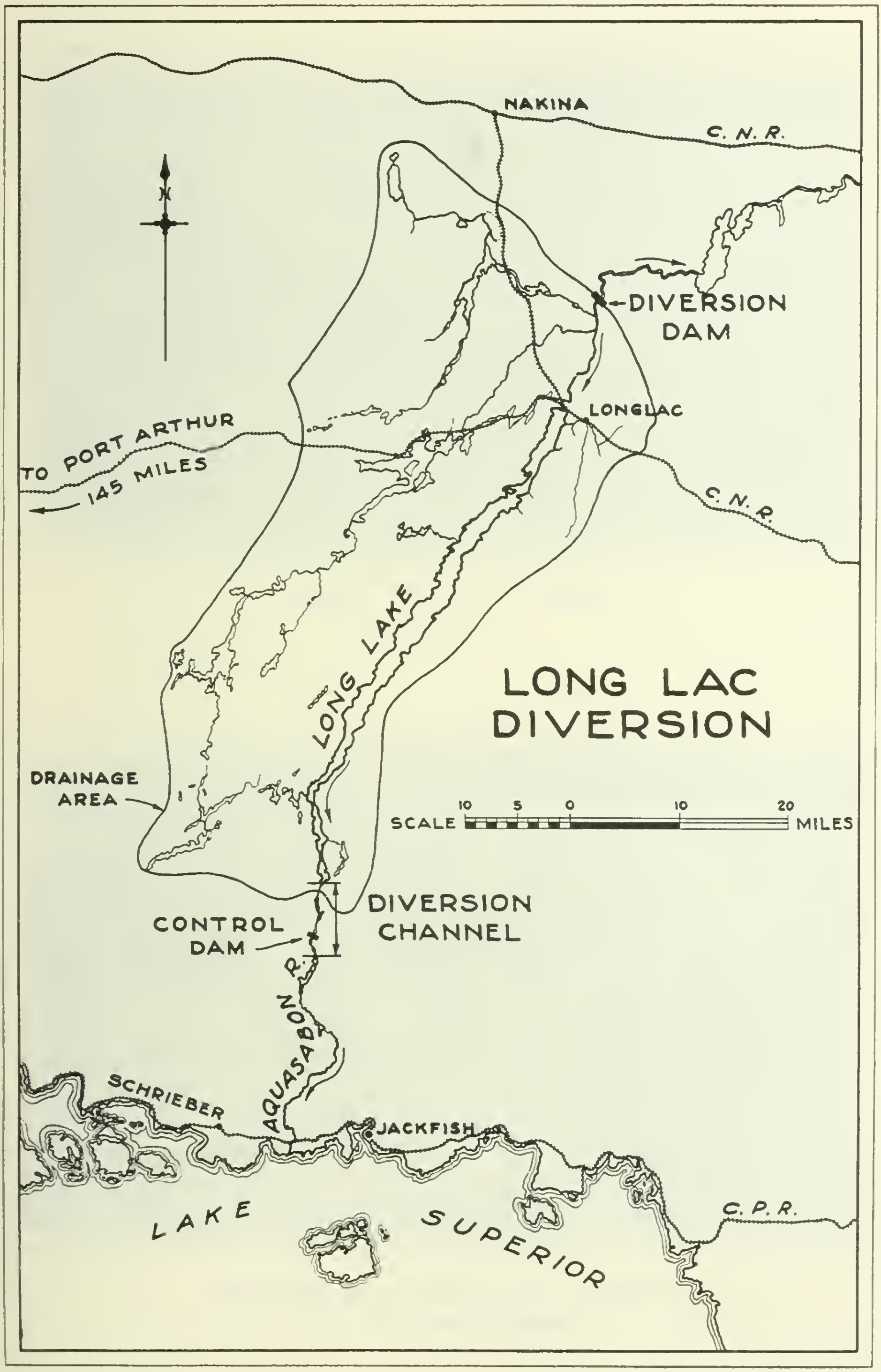
The construction of the diverting dam in the Kenogami river north of Long lake was undertaken by the Commission's own organization. This dam will be of the gravity sluiceway type. It will be about 240 feet long, made up of a bulkhead section at each end, with a section in the centre having six 16-foot sluiceways controlled by stop-logs. At normal water level there will be a depth of 22 feet of water on the sills.

GEORGIAN BAY SYSTEM

Steady growth in the power demand in the Georgian Bay system had reached the point where a new source of power was required. Plans for meeting this anticipated growth in demand were made several years ago, when surveys of the Musquash river were instituted to determine its potential power resources. These surveys indicated that three power sites are available. To meet the growing demand which in 1937 amounted to 2,900 horsepower, or about ten per cent increase over the 1936 peak load, construction of a development at Ragged Rapids was begun in the spring of 1937. When complete in 1938, this plant will add 10,000 horsepower to the peak capacity of the system.

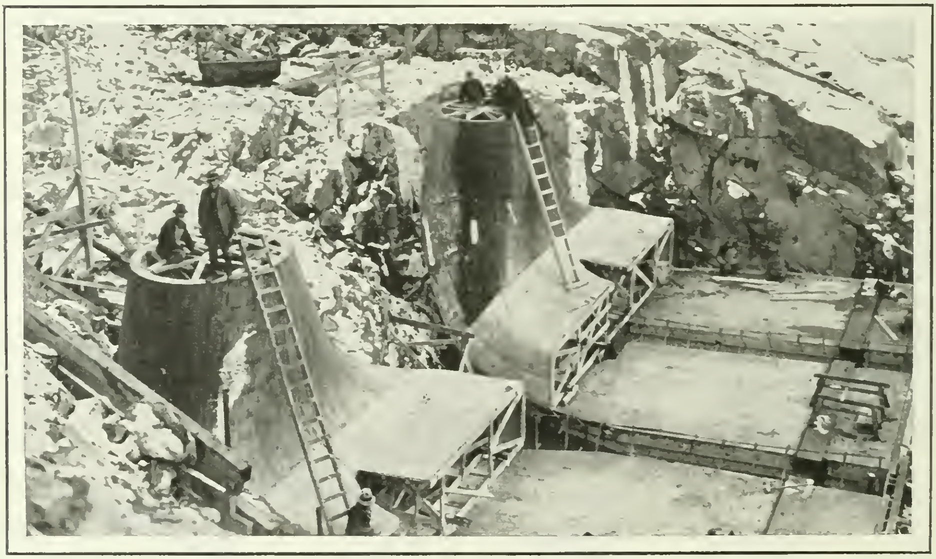
In addition to the main dam at Ragged Rapids on the Musquash river, where the power house forms part of the structure, the development involves the improvement of the channel through Moon chute so that the Bala level can be carried down to Ragged Rapids. A control dam in the Moon river and three auxiliary dams are also required.

The hydraulic equipment for the plant is being supplied by S. Morgan Smith-Inglis Company, Limited. Two vertical units, having governor-operated


NAKINA
C. N. R.
N
DIVERSION DAM
LONGLAC
TO PORT ARTHUR 145 MILES
C. N. R.
LONG LAKE
LONG LAC DIVERSION
DRAINAGE AREA
SCALE 10 5 0 10 20 MILES
DIVERSION CHANNEL
CONTROL DAM
AQUASABON R.
SCHRIEBER
JACKFISH
C. P. R.
LAKE SUPERIOR

RAGGED RAPIDS DEVELOPMENT—MUSQUASH RIVER

Power-house site



RAGGED RAPIDS DEVELOPMENT—MUSQUASH RIVER

Draft tube forms looking south

RAGGED RAPIDS DEVELOPMENT—MUSQUASH RIVER

Channel improvement at Moon chute

RAGGED RAPIDS DEVELOPMENT—MUSQUASH RIVER

Highway bridge crossing Musquash river

RAGGED RAPIDS DEVELOPMENT—MUSQUASH RIVER
Construction work on Moon river dam

adjustable blade runners, are being installed. Each is rated at 5,200 horsepower under 38-foot head and operates at 200 r.p.m.

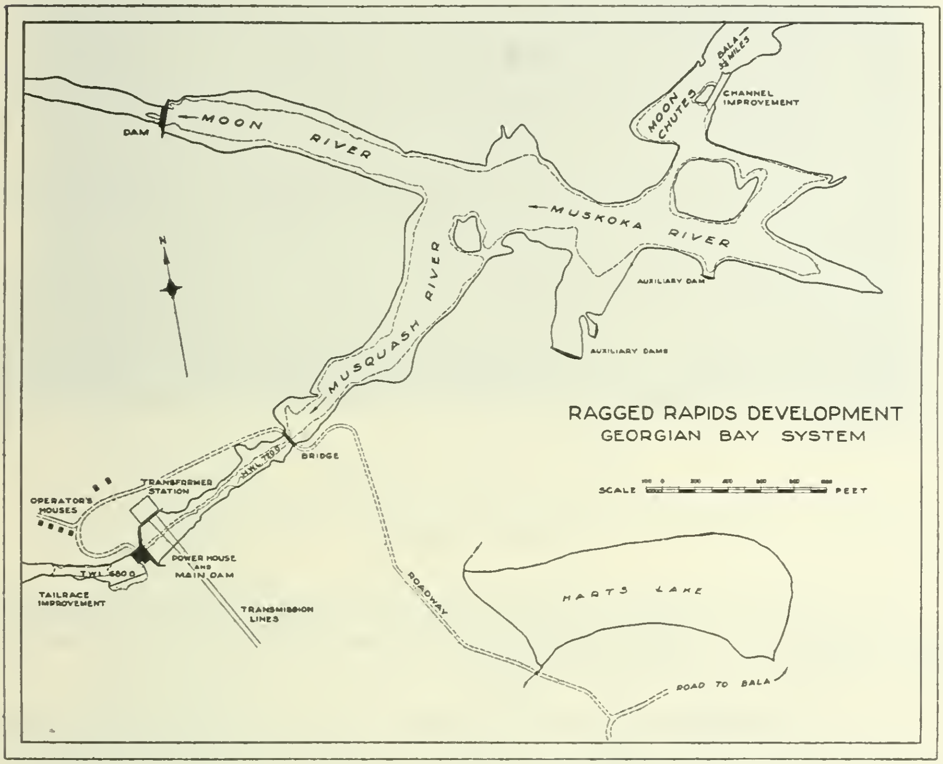
At the Eugenia development the property lines were re-surveyed, and the corners established and marked by permanent monuments.

EASTERN ONTARIO SYSTEM

Five hydro-electric generating plants, purchased by the Commission in 1937, were added to the Eastern Ontario system. These are situated at Lock 24 on the Trent canal, now known as the Douro plant; at Youngs Point and Lakefield on the Otonabee; at Campbellford-Ranney Falls on the Trent river; and at Frankford, now known as Sills Island plant. The first four plants have been overhauled and placed in good operating condition; the Sills Island plant required no immediate attention.

A new shaft and runners for unit No. 1 were installed in the Calabogie plant, and repairs were made to the headworks.

A survey of the potential power sites on the Madawaska river was undertaken in 1936. During 1937 information relating to foundation conditions at the several sites was secured, and a survey made to determine the storage capacity available at Bark lake.



RAGGED RAPIDS DEVELOPMENT
GEORGIAN BAY SYSTEM

DAM
MOON RIVER
BALA 3½ MILES
MOON CHUTES
CHANNEL IMPROVEMENT
MUSKOKA RIVER
AUXILIARY DAM
AUXILIARY DAMS
N
MUSQUASH RIVER
H.W.L. 720.0
BRIDGE
TRANSFORMER STATION
OPERATOR'S HOUSES
POWER HOUSE AND MAIN DAM
T.W.L. 680.0
TAILRACE IMPROVEMENT
TRANSMISSION LINES
ROADWAY
HARTS LAKE
ROAD TO BALA
SCALE
FEET

NORTHERN ONTARIO PROPERTIES

Sudbury District

At the McVittie generating plant some work, which was not completed when repairs to the plant were being made last year, was put in hand during 1937. This included removal of part of the old dam and the building of a timber training crib below the new dam. Property lines were re-surveyed and permanent monuments erected to replace the posts lost or obliterated.

The Crystal Falls plant, purchased by the Commission, was overhauled and the equipment put in good operating condition.

A design was prepared for a new main dam to replace the timber crib structure, which has served the Coniston development since its inception.

Abitibi District

Following the investigations of 1936, it was decided to proceed with the construction of a dam on the Frederick House river, a tributary of the Abitibi, to store water in Night Hawk and Frederick House lakes for the benefit of developments on the Abitibi river. The site chosen is about fourteen miles below Connaught and, while rather difficult of access, is the most favourable of those available.

Construction was commenced early in the spring, and it is expected that the dam will be completed in time to impound the spring run-off of 1938.

The structure will have an overall length of about 550 feet. Commencing at the north end, it will be made up of a bulkhead section, a sluice section having nine 16-foot sluices, and a second bulkhead section tying into the high ground at the south end. The dam will impound 300,000 acre feet of water, and will increase the dependable capacity of the Abitibi Canyon plant by about 40,000 horsepower.

Patricia District

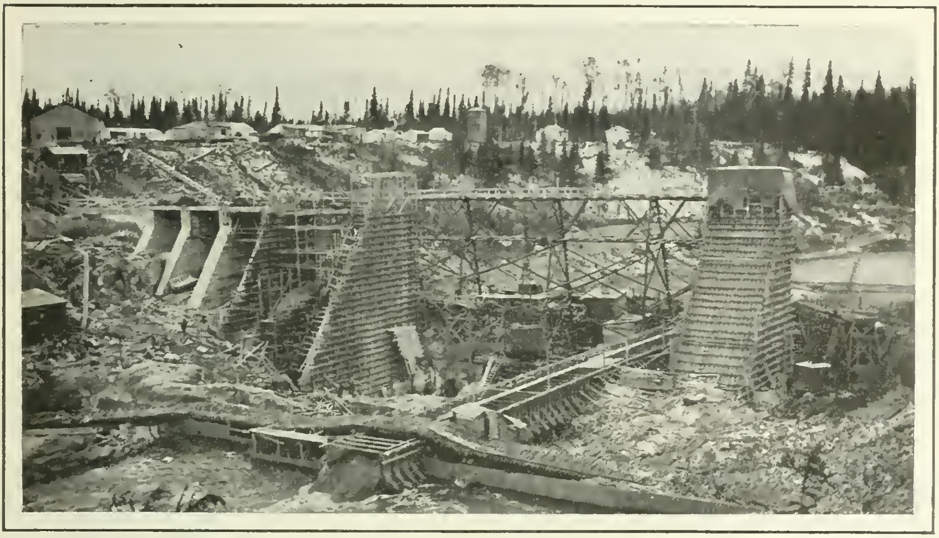
The rapid development of mines in the vicinity of Red Lake made necessary the installation of a second 5,000 horsepower unit at Ear Falls. This extension was completed in the summer of 1937.

It is of particular interest to note that the first unit in this plant constructed by the Commission was placed in operation in December 1929 and, except for a few very brief shut-downs for inspection purposes, has been in continuous operation since that date. When unit No. 2 was put in operation, advantage was taken of the opportunity to overhaul unit No. 1 and make necessary repairs.

St. Joseph District

The capacity of the plant at Rat Rapids was increased in 1936 by the addition of a second unit. Now, owing to the rapid growth on the mining load, the demand for power is again approaching the plant's capacity, and it has become necessary to seek means of adding to the power supply. To this end, a further survey of a possible power site at Triple falls on the Albany river, investigated some years ago, was carried out, and preliminary designs have been made for a development at this site.

The question of securing additional water at the Rat Rapids generating plant, by developing storage on lake Pashkokogan and diverting water into lake St. Joseph, has been considered. Surveys made in 1936 were supplemented by further field work.



FREDERICK HOUSE RIVER DAM

View from down-stream side on October 13, 1937, showing No. 2 section of south gravity wall completed. Note the timber flume by-passing water from above the upper coffer dam

HYDRAULIC INVESTIGATIONS

A study was made of the power possibilities of the French river.

The town of Sioux Lookout has from time to time considered the question of a power development to serve its needs, and has requested assistance from the Commission. Investigations were made during the year of possible sites.

Flooding in the valley of the Thames river has from time to time caused considerable loss to certain municipalities in that area. The extreme floods of 1937 resulted in requests from the municipalities on the river for studies of works to control the floods and reduce or eliminate damage. At the request of the Provincial government, preliminary investigations were made.

SECTION V

ELECTRICAL ENGINEERING AND CONSTRUCTION

(STATION SECTION)

TO take care of actual load growth and definite demand for service extensions, much construction work was undertaken in 1936-7. Most of the work carried out was based upon previous studies and estimates which had shown the most advantageous method of providing the necessary increased facilities.

Co-Operative Systems

In the Niagara system the transformer capacity of the 110,000-volt stations at Hamilton, Thorold, London and York is being increased.

In the Georgian Bay system an additional section was changed over to 38,000-volt operation. This involved extensive alterations to the auto-transformer stations at Eugenia and Waubaushene and the construction of a 6,000-kv-a auto-transformer station at Fergusonvale. A 9,000-kv-a development is being made at Ragged Rapids on the Musquash river.

In the Eastern Ontario system five generating plants, three near Lakefield, one at Ranney Falls and one near Frankford, were purchased, rehabilitated and connected into the Central Ontario district. A 15,000-kv-a, 110,000-volt station was erected near Trenton.

In the Thunder Bay system, Long Lac area, a 9,000-kv-a, 110,000-volt transformer station is being erected. A 450-kv-a distributing station was installed at Geraldton and a 200-kv-a distributing station at Beardmore.

Northern Ontario Properties

Construction work in connection with the Northern Ontario Properties was again active. In the Sudbury district the newly purchased Crystal Falls plant on the Sturgeon river was rehabilitated and connected to the Sudbury district, and a 2,000-kv-a static condenser was installed at Sudbury distributing station. In the Abitibi district an additional 4,500-kv-a, 110,000-volt transformer bank was installed at Timmins. At Ear Falls generating station, in the Patricia district, the second 4,500-kv-a unit was placed in service.

Throughout the various systems and Northern Ontario Properties, ten new distributing stations were installed and the capacity of nineteen others was increased.

NIAGARA SYSTEM

Generating Stations on Niagara River

At Queenston generating station the ventilation of the control-room was improved.

At Ontario Power generating station a mechanical stoker was installed on a boiler supplying steam for heating the gatehouse and gates.

Transformer and Distributing Stations

In order to supply power to Thorold from 110,000-volt circuits, the two 15,000-kv-a banks of transformers referred to in last year's Report were placed in service in Thorold transformer station. A third bank of similar transformers, obtained from system reserve, was also placed in service. An oil circuit-breaker was installed in the 12,000-volt feeder to Merritton.

At Welland transformer station the bank of three 2,400-kv-a transformers transferred from Thorold was installed and placed in service.

At Beamsville a new distributing station was erected. Three new 250-kv-a transformers were installed and the station placed in service on January 20.

At St. Davids distributing station the 300-kv-a, 3-phase transformer released from Beamsville was installed and placed in service on October 1, in parallel with the original 300-kv-a transformer. This released a 150-kv-a unit which was transferred to system reserve and stored at St. Thomas.

Changes were made in the metering equipment at Merriton in order to measure on the same meter the power supplied to Interlake Tissue Mills Company and that supplied to the town.

At St. Catharines Burgoyne switching station, 13,200-volt switching equipment was installed for the control of an additional line from Thorold transformer station.

To supply power to Jordan rural power district equipment for an additional 4,000-volt feeder was installed at Beaver Dams distributing station. Improved fuses were placed on the 4,000-volt Stamford rural feeder and on the 12,000-volt feeders.

Hayes Wheel distributing station was dismantled. The three 250-kv-a transformers were stored on the property.

Hamilton and Dundas District—At Hamilton-Stirton transformer station a second 15,000-kv-a bank of transformers is being installed. Two new 5,000-kv-a, single-phase transformers have been purchased and will be used with the existing spare unit of similar rating to complete the bank. A grounding transformer was purchased for installation on the 13,200-volt bus. Switching equipment is being installed for a second 110,000-volt circuit and for five 13,200-volt feeders.

At Hamilton Beach transformer station the necessary switching equipment is being installed for a second 110,000-volt circuit to Hamilton-Stirton transformer station. Changes have been made in the metering equipment on the 13,200-volt feeders.

To supply a portion of Dundas and Caledonia rural power districts, Ryckman distributing station was erected near Southcote. Three 75-kv-a transformers were obtained from system reserve and the station placed in service on February 16, 1937.

Toronto and York District—Preliminary engineering studies for an increase in the capacity of the Toronto-Leaside transformer station were made.

At Toronto Bridgman-Davenport and Toronto Wiltshire transformer stations additional features were added to the relaying equipment on the transformer protection. At the former station improvements were made in the lighting of the control-room.

A second bank of three 5,000-kv-a transformers, obtained from system reserve, is being installed at York transformer station.

At Woodbridge distributing station improvements were made in the relaying equipment.

At Sutton distributing station and at Stouffville metering station improved instrument-transformers were installed, and in the former station the graphic wattmeters were replaced by more suitable instruments.

A new station was erected for Weston Public Utilities Commission to supply power to Moffats Limited. Three 300-kv-a transformers originally in the Weston municipal station were used. The station was placed in service on April 10. Three new 500-kv-a transformers were purchased and installed at the Weston municipal station, replacing the 300-kv-a units.

At Hornby a new distributing station was installed to supply power to the new Canadian Broadcasting Corporation station. Three new 150-kv-a transformers were purchased and the station placed in service on October 26.

Improvements were made in the relaying and metering equipments at New Toronto distributing station.

At Brampton municipal station the low-voltage distribution was changed from 2,300 to 4,000 volts. The circuit-breakers on the two 13,200-volt circuits and four 4,000-volt feeders were replaced by larger capacity circuit-breakers and two of the original 4,000-volt breakers were reinstalled on the circuits to the transformer banks.

A new municipal station is being built for Forest Hill village. Two 3,000-kv-a, 3-phase transformers, and 4,000-volt switching equipment were purchased and are being placed outdoors. Two 4,000-volt feeders and the station-service equipment will be housed in a metal cubicle and the 13,200-volt equipment will be mounted on a steel-structure. The station should be placed in service before 1938.

London District—At London transformer station the third bank of three 5,000-kv-a transformers is being installed. The spare transformer at the station and two duplicate units from system reserve will be used.

The capacity of Delaware distributing station was increased. Three new 250-kv-a transformers were placed in service on July 18, replacing three 100-kv-a units.

At Lucan distributing station the capacity was increased. Three 100-kv-a transformers released from Delaware distributing station were placed in service on September 19. The original three 75-kv-a transformers were transferred to system reserve.

Guelph District—At Guelph transformer station a pipe-line was installed to connect the city water-system to the station water-system. A compartment to house the water meter was built outside the building.

The 13,200-volt lightning-arresters at Acton distributing station were replaced by modern units.

Kitchener District—At Kitchener transformer station improvements were made in the relaying equipment on the 13,200-volt feeders.

Woodstock District—The relaying equipment on the 13,200-volt bus at Woodstock transformer station was improved.

At Woodstock rural station a bank of three new 250-kv-a transformers was installed, replacing the bank of three 150-kv-a transformers which were transferred to system reserve.

Changes were made in the 13,200-volt switching equipment at Tillsonburg rural station.

At Burgessville metering station the lightning-arresters and demand-meter were replaced with modern-type equipment and the station ground-connections were improved.

Brant District—At Ayr distributing station the bank of three 150-kv-a transformers were replaced by a bank of three 250-kv-a transformers. Disconnecting-switches were installed on each side of the oil circuit-breakers on the two 4,000-volt feeders. The 4,000-volt lightning-arresters were replaced by new, outdoor units.

The transformer capacity at St. Williams distributing station was increased when the three 150-kv-a transformers were replaced temporarily by three new 250-kv-a units, pending construction of a new station.

At Simcoe municipal station the current-transformers in the Simcoe rural feeder were replaced by larger capacity units.

Kent District—At Kent transformer station the pipe-line connecting Chatham's water-system to the station water-system was replaced for a distance of more than 1,200 feet.

The bank of three 75-kv-a transformers at Rondeau distributing station was replaced by three 150-kv-a transformers released from Woodstock rural station.

At Wallaceburg distributing station changes were made in the metering equipment.

Essex District—At H. J. Heinz Company metering station equipment was installed to meter the power supplied to the company's new station.

Improvements were made in the metering equipment at Belle River distributing station. Larger capacity current-transformers were installed on the rural feeder and six lightning-arresters on the 4,000-volt feeders were replaced by modern units.

GEORGIAN BAY SYSTEM

A power site is being developed at Ragged Rapids on the Musquash river and a generating and transformer station erected for the supply of additional power to the Georgian Bay system. Two 4,500-kv-a, 60-cycle, 200 r.p.m., 6,600-volt vertical-shaft generators have been purchased for delivery and installation in the spring of 1938. A bank of three 3,000-kv-a, single-phase transformers with a spare unit and 6,600-volt metal-clad switch-gear have already been ordered and the station should be in service by the summer.

A rural station was erected at Minden to supply single-phase power to the surrounding rural district at 6,600-volts. A 75-kv-a, 2,300/6, 600-volt transformer obtained from system reserve was installed and the station was placed in service on July 17.

A section of the system was changed from 22,000-volt to 38,000-volt operation.

Severn District—An auto-transformer station was erected at Fergusonvale and two 3,000-kv-a auto-transformers previously at Waubaushene were placed in service there in July. Two 15-kv-a, 22,000/110-220-volt transformers were purchased to supply power for station service and for voltage indication. A cottage is being built for the operator.

At Waubaushene auto-transformer station six new oil circuit-breakers were installed in the 38,000-volt and 22,000-volt circuits and arranged for automatic operation and control of the station. Two 15-kv-a, 22,000/110-220-volt transformers were purchased to supply power for station service. The two 3,000-kv-a auto-transformers which were moved to Fergusonvale were replaced with two 1,500-kv-a auto-transformers previously installed at Eugenia generating station.

At Waubaushene distributing station the bank of three 25-kv-a transformers was replaced by a bank of three 50-kv-a transformers previously released from Paisley distributing station. The distribution voltage was changed to 4,000 volts and a second feeder added. The necessary 22,000-volt and 4,000-volt switching equipment was also installed and the station placed in service in July.

Changes were made in the switching equipment at Collingwood distributing station and three new 22,000-volt lightning-arresters installed.

At Innisfil distributing station the transformer capacity was increased. The bank of three 150-kv-a transformers was removed and three 250-kv-a transformers installed and placed in service on June 25. The 150-kv-a units were transferred to system reserve.

At Coldwater distributing station the equipment was changed to permit the distribution of power at 4,000 volts instead of 2,300 volts.

At Barrie distributing station a 12-cell storage-battery and trickle-charger were installed to provide direct-current power for operating the circuit-breakers. Changes were made in the relays to improve the automatic-control features on the 22,000-volt circuit-breakers.

Transformer capacity was increased at Alliston distributing station; some obsolete equipment was replaced and a new chain-link fence erected. The bank of three 75-kv-a transformers was replaced by three 125-kv-a transformers.

The original bank is now in service to supply power for construction work at Ragged Rapids development.

At Thornton, Tottenham and Cookston distributing stations concrete pads were installed for the transformers, some obsolete switching equipment and lightning-arresters were replaced with new equipment and standard chain-link fences erected around the station grounds. A new fence was also erected around Bradford distributing station site.

Eugenia District—In the Eugenia generating station two new 3,000-kv-a, 38,000/22,000-volt auto-transformers equipped with under-load tap-changing equipment were installed on the existing concrete pads, replacing two 1,500-kv-a units. The latter were moved to Waubaushene where they were installed as part of the arrangement for changing a larger portion of the system transmission voltage to 38,000 volts. The new auto-transformers were placed in service in August.

At Hanover frequency-changer station improvements were made in the ventilation of the building and frequency-changer. To provide additional cooling water a deep well was drilled on the property and the necessary pumping equipment and pipes installed.

The water-cooling system for the transformers at Owen Sound distributing station was improved.

At Meaford distributing station the bank of transformers was re-connected for 38,000-volt operation and voltage-regulators were installed on the low-voltage side.

At Paisley distributing station the bank of three 50-kv-a transformers was replaced by three 150-kv-a transformers released from Southampton generating station. This bank of transformers supplies power to a portion of Bruce rural power district at 8,000 volts while a new bank of three 50-kv-a transformers was purchased and connected 8,000/4,000 volts to supply power to the town of Paisley. The new equipment was placed in service in June.

The Bruce rural metering equipment, at the southern limits of Port Elgin, was dismantled.

At Flesherton rural station new lightning-arresters and a fuse-switch were installed.

Wasdells District—The Uxbridge rural metering equipment at the western limits of the town was dismantled, as power for the rural load is now being supplied direct from Uxbridge distributing station.

EASTERN ONTARIO SYSTEM

110,000-volt Transformer Stations

A new 110,000-volt station known as Sidney transformer station was built near Trenton to provide an additional tie for the supply of power from the 110,000-volt circuits to the Central Ontario district. A bank of three new 5,000-kv-a transformers with spare unit was purchased and placed in service on October 11. The station will be completed early in 1938.

At Howard Smith Cornwall (Steam) transformer station disconnecting-switches were installed in the circuits to the steam-generator electrodes.

Central Ontario District—Three generating stations at Lakefield, Young's Point and Lock 24 on the Otonabee river, purchased from Canada Cement Company were rehabilitated and connected into service on the Central Ontario district. At Lakefield, two 1,500-kv-a, three-phase, 44,000/2,400-volt transformers, purchased from Peterborough Public Utilities Commission, were installed outside the generating station and connected from the generator bus to a new 44,000-volt circuit to Peterborough.

Two power-plants on the Trent river were purchased from Quinte and Trent Valley Power Company. One of these plants known as Sills Island generating station is situated near Frankford and contains two 1,200-kv-a, 6,600-volt generators and room for an additional similar unit. At the present time power is transmitted to Dam No. 5 plant (Frankford) at generator voltage. An order has been placed for a 3,000-kv-a, three-phase transformer which will be installed at Sills Island generating station to step-up the generator voltage and supply power to the system at 44,000 volts. The second plant consists of a 900-kv-a generator in a building close to Ranney Falls generating station. The generator is being made ready for service with remote control equipment for operation from Ranney Falls control-room. A 750-kv-a, 2,400/44,000-volt, three-phase transformer will be transferred from system reserve to this station.

At Sidney generating station the necessary switching equipment is being installed for a 44,000-volt circuit from Sills Island generating station.

At Ranney Falls generating station improvements were made in the lighting of the control-room.

At Seymour generating station a 24-volt storage-battery with trickle-charger was installed to supply power for the operation and control of the circuit-breakers. Improved relays are being installed on the 2,400-volt feeders.

A new 3,000-kv-a transformer is being installed at Kingston distributing station to replace one of the existing 1,500-kv-a units.

At Auburn switching station equipment for the control of a new 44,000-volt circuit to Lakefield generating station was installed.

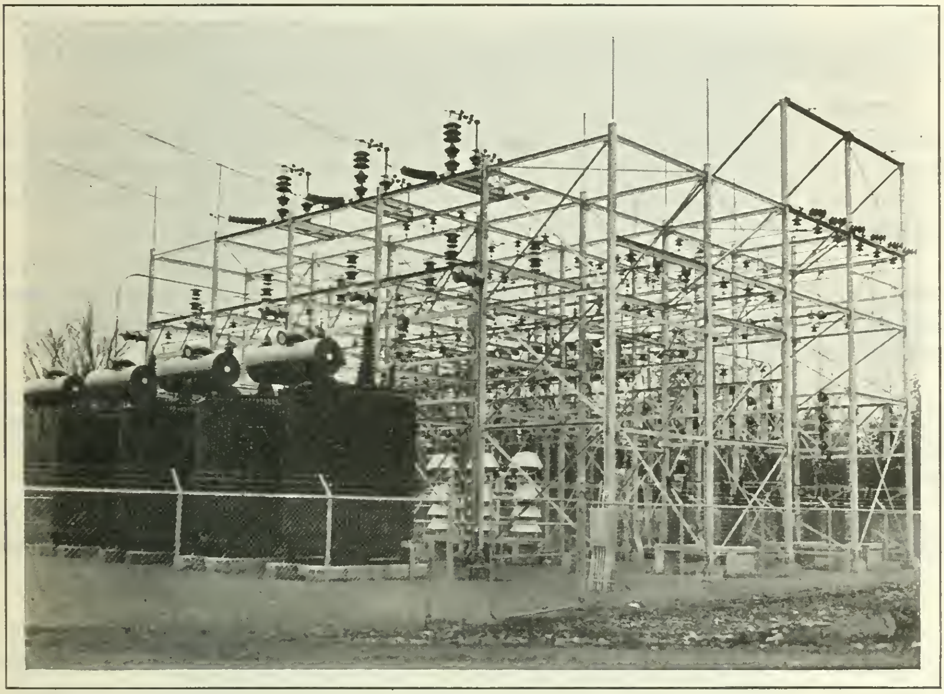
At Cataraqui distributing station the transformer capacity was increased and equipment for two additional 8,000-volt feeders installed. A bank of three new 250-kv-a transformers was provided, replacing the original three 100-kv-a units.

The Peterborough Public Utilities Commission was given assistance in the purchase and installation of an additional 3,000-kv-a three-phase transformer and switching equipment for its municipal station.

St. Lawrence District—At Brockville distributing station the transformer capacity was increased. A 1,500-kv-a, three-phase unit was purchased from Peterborough Public Utilities Commission and installed in a pocket previously occupied by a 750-kv-a transformer. The released transformer was moved to Smiths Falls distributing station.

At Lyn distributing station the transformer capacity was increased and equipment installed for two additional 8,000-volt feeders. A bank of three new 250-kv-a transformers was installed and the original three 100-kv-a transformers were transferred to system reserve.

Madawaska District—At Galetta generating station the necessary equipment was installed for a 2,300-volt three-phase feeder to Kingdon mine.



SYDNEY TRANSFORMER STATION

At Renfrew distributing station disconnecting-switches were installed in the 4,000-volt, town-line feeder.

At Carleton Place distributing station the second 750-kv-a, three-phase transformer was installed and placed in service.

At Smiths Falls distributing station an additional 750-kv-a transformer recently released from Brockville distributing station is being installed. A new 26,400-volt air-break switch is also being provided.

Ottawa District—A bank of three new 200-kv-a transformers was installed at Ottawa rural station in parallel with the original bank. A duplicate transformer which had been held in system reserve was provided as a spare unit.

THUNDER BAY SYSTEM

At Alexander generating station mechanically-operated ventilators were placed in the east wall. Relaying equipment to protect a 110,000-volt circuit to Long Lac transformer station was provided.

At Cameron Falls generating station equipment for a 110,000-volt circuit to Long Lac transformer station is being installed.

On the 1,500-kv-a transformers at Cameron Falls transformer station fans were installed to facilitate cooling and increase capacity. A duplicate transformer was also purchased as a spare unit.

A 110,000-volt step-down transformer station is being constructed at Long Lac to enable power to be received at this voltage from the bus at Cameron Falls generating station. A bank of three new 3,000-kv-a, 110,000/46,000-volt transformers should be in service early in 1938. A grounding transformer which will also supply power for station service at 120 volts, is being installed in the 44,000-volt bus. An operator's cottage is being provided.

A distributing station was installed at Geraldton to supply power to the townsite. A bank of two 150-kv-a, 44,000/2,400-volt transformers was transferred from Georgian Bay system reserve for connection in open-delta and the station was placed in service on February 28. On September 19, when further capacity was required the third transformer was installed in the bank.

At Beardmore a distributing station was installed to supply power to the townsite. Two 100-kv-a, 44,000/2,400-volt, single-phase transformers were obtained from Georgian Bay system reserve and connected in open-delta. The station was placed in service on July 22.

Metering equipments were installed to measure the power supplied to MacLeod-Cockshutt Gold Mines Limited, Jellico Consolidated Gold Mines, Bankfield Consolidated Mines Limited, Hardrock Gold Mines Limited and Sturgeon River Gold Mines.

For Lake Sulphide Pulp Company Limited equipment was installed to enable power to be delivered for construction work at Red Rock near Nipigon.

NORTHERN ONTARIO PROPERTIES

Crystal Falls plant on the Sturgeon river was purchased from the Abitibi Power and Paper Company and rehabilitated to supply power to the Nipissing and Sudbury districts. The plant contains four 2,125-kv-a, 60-cycle, 2,300-volt generators and a bank of three 3,000-kv-a transformers and was placed in service on the Commission's system on September 1.

Nipissing District—North Bay rural station was installed at the south-westerly limits of the city to supply 8,000-volt power to a portion of North Bay rural power district. A bank of three new 100-kv-a transformers was installed with the necessary switching and metering equipment. The station was placed in service on July 9.

Sudbury District—At Sudbury distributing station a static-condenser of 2,000-kv-a capacity is being installed.

Abitibi District—Pamour transformer station, under construction last year, was completed and placed in service on December 20, 1936.

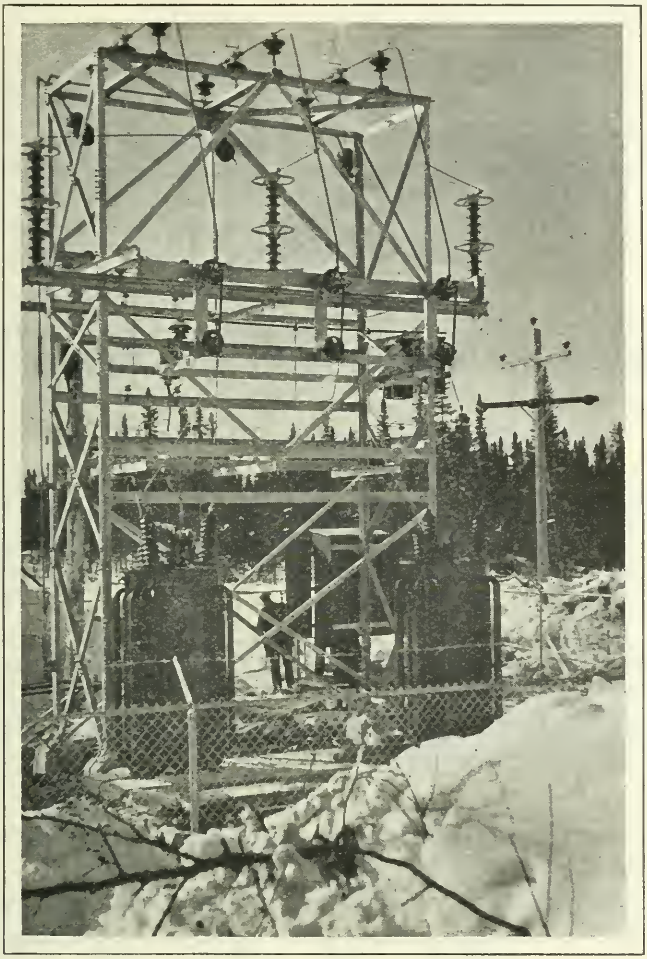
At Timmins transformer station a second bank of three 1,500-kv-a transformers was purchased and installed on October 24, 1937.

At Kirkland Lake transformer station a special room was equipped for testing and calibrating meters.

Mace Gold Mines distributing station was installed near Timmins to supply power to the mining company. A bank of three 500-kv-a transformers was used and the station placed in service on August 19.

King Kirkland distributing station was installed to supply 2,300-volt, single-phase power to the townsite from a 12,000-volt circuit. A 75-kv-a, single-phase transformer with the necessary switching equipment was placed in service on December 22, 1936.

Equipment to meter the power supplied to Kir Vit Mines Limited, Kerr Addison Gold Mines Limited, Buffalo Ankerite Gold Mines Limited, Porcupine



GERALDTON DISTRIBUTING STATION

Lake Gold Mines Company Limited, Moneta Porcupine Mines Limited and Golden Gate Mining Company, was installed.

Patricia District—The installation of the second generating unit at Ear Falls development was completed and the machine placed in service on June 28, 1937. An additional bank of three 1,500-kv-a transformers was purchased and installed. Seven houses, a school, a radio building, a recreation building and a food-storage building are being constructed for use by the operating staff at the development. Water supply, sewage disposal and electric service are being provided.

Equipment for measuring the power supplied to Madsen Red Lake Gold Mines Limited was installed.

St. Joseph District—Improved ventilation is being provided in No. 1 generating station at Rat Rapids.

Equipment to meter the power supplied to Albany River Gold Mines Limited was installed.

SECTION VI

TRANSMISSION, DISTRIBUTION AND RURAL SYSTEMS

TRANSMISSION SYSTEMS

INCREASED demands and new loads have made necessary many betterments and additions to the Commission's transmission systems during 1937, the most important being in the Eastern Ontario and Thunder Bay systems and in the Northern Ontario Properties.

At a cost of approximately $2,193,000, a total of 460.33 miles of transmission line were placed in service, as indicated in the following tabulation; of this total, 125 miles were acquired by purchase, chiefly 44,000-volt lines in the Sturgeon River-Long Lac area.

MILEAGE OF TRANSMISSION LINES PLACED IN SERVICE, YEAR ENDED OCTOBER 31, 1937

	Niagara system	Georgian Bay system	Eastern Ontario system	Thunder Bay system	Northern Ontario Properties	Totals
	'miles	miles	miles	miles	miles	miles
110,000-volt to 220,000-volt lines.......	1.50	......	120.32	94.88	8.15	224.85
38,000-volt to 44,000-volt lines	......	16.46	7.67	115.09	......	139.22
11,000-volt to 26,400-volt lines........	23.65	......	9.82	......	62.79	96.26
Totals	25.15	16.46	137.81	209.97	70.94	460.33

In addition, revisions and betterments were made in all systems where required.

A map showing the transmission lines and stations of the Commission will be found at the back of this Report and summary tabulations respecting transmission lines, in Appendix II.

The following synopsis shows, by systems, the work completed during the year.

NIAGARA SYSTEM

High-voltage Lines

A junction was established in the existing lines on the west side of the Welland Ship Canal at Allanburg and 1.5 miles of double-circuit, 110,000-volt, steel-tower line were built to connect the Thorold transformer station. This line replaces the former 60,000-volt supply.

26,400-volt Lines

A single-circuit, wood-pole line was rebuilt between Keswick junction and Keswick distributing station, a distance of 0.80 mile.

A section of the Tilbury-Fletcher junction line was relocated on account of highway widening work.

Reinforcement was completed on the Sebringville junction-Goderich distributing station wood-pole line by the addition of guys, a total distance of 54.91 miles; defective insulators were replaced and units were added at dead-end positions. Air-break switches were replaced and the structure revised at Mitchell junction.

The ground wire was removed and conductors rearranged to pole-top-pin construction on the Sebringville junction-Harriston line, a total distance of 44.42 miles.

On the double-circuit, Seaforth junction-Seaforth municipal station line conductors were removed and replaced by a single circuit on pole-top-pin construction, a distance of 1.5 miles.

Air-break switches at Clinton junction were replaced by a modern type.

Between Mitchell junction and Dublin distributing station, Stratford transformer station and Tavistock distributing station, some poles were replaced and others stubbed in order to provide space for rural power districts' equipment.

Nineteen poles were replaced in the wood-pole telephone line near Drumbo to accommodate rural power district circuits.

Between East Windsor junction and the Hydro-Electric railway East Windsor station, a distance of 0.81 mile, the double-circuit, 3/0 aluminum conductors were removed and replaced by a single-circuit of 3/0 aluminum cable, steel-reinforced. New disconnect switches were installed at the junction.

The 26,400-volt, wood-pole lines, totalling 9.96 miles, used to transmit power to stations in the city of Windsor, have been turned over to the Windsor Public Utilities Commission for administration.

Additional pole space was provided for Amherstburg rural power district attachments by the replacement of 15 poles in the Petrimoux-Comet junction line.

The air-break switch structure at the Heinz Company, Leamington, was moved to its permanent location upon the completion of the new substation.

Poles were replaced in the vicinity of Forest and Petrolia to provide space for rural power districts' attachments.

Other Lines

Portions of trunk-telephone, wood-pole line in the vicinity of Dundas were rebuilt to provide pole space for Dundas rural power district circuits, a total distance of 7.5 miles.

Power and telephone connections were made to the new 13,200-volt, Ryckman distributing station.

A short 13,200-volt tap, complete with line switching, was constructed to Moffat's Limited, at Weston.

Poles were relocated and circuits rearranged at Delaware junction and at Delaware distributing station in conformity with alterations at the station.

Thirty poles were relocated in the Delaware junction-Mt. Brydges junction line, in order to clear highway work near Strathroy.

Between Norwich junction and Tillsonburg municipal station, a distance of 8 miles, a single-circuit, 13,200-volt, wood-pole line was constructed. This line replaces the old, double-circuit line, 10.3 miles long, which had been in operation since 1911.

Twenty-one telephone poles were replaced in order to provide for Ingersoll and London rural power districts' attachments.

Relocation was completed of 1.25 miles of 13,200-volt, wood-pole line between the westerly limits of Aylmer and Aylmer distributing station, in order to eliminate hazards on town streets.

Increased conductor spacing was accomplished by the revision of the Dutton-West Lorne 13,200-volt line to pole-top-pin construction, a distance of 7.6 miles.

The ground wire was removed and crossarms rearranged on 2 miles of the 13,200-volt, Streetsville junction-Milton wood-pole line to provide clearances for the addition of Milton rural power district attachments.

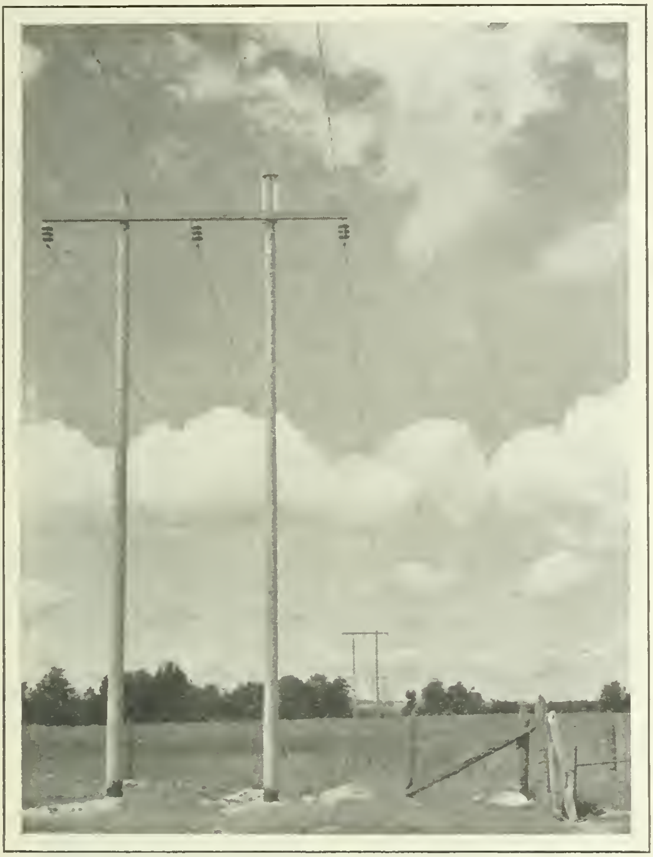
Between Drumquin junction and the new Canadian Broadcasting Corporation's station near Hornby, construction was completed of 3.2 miles of 13,200-volt, single-circuit, wood-pole line. Conductors are No. 2 aluminum cable, steel-reinforced, and the line is equipped with a telephone circuit and switching at Drumquin junction.

Due to highway work in the vicinity of Woodbridge, 35 poles were relocated in the 13,200-volt line between Woodbridge and Kleinburg distributing stations.

In order to provide for the building of a local distribution line between a point south of Bloor Street and Islington distributing station, poles were relocated on Islington Avenue so that the 13,200-volt line occupies one side of the street only.

An additional single-circuit, 12,000-volt, wood-pole line was constructed to the Norton Company at Chippawa. This line is 1.38 miles long and its source of supply is the Toronto Power transformer station.

Between Thorold transformer station and Burgoyne distributing station, a distance of 3.75 miles, a single-circuit, 12,000-volt line having 4/0 copper conductors, was completed.



TRANSMISSION LINES—GEORGIAN BAY SYSTEM
Standard twin pole structure 38,000-volt line Waubaushene to Fergusonvale

Circuits in the Thorold transformer station-Garden City junction vicinity were revised by the addition of short stretches of new, 12,000-volt line and reconstruction to provide single-circuit, loop supply to Merritton and Garden City junctions. A new station at Merritton was connected to this loop system by the construction of 0.25 mile of single-circuit, wood-pole line.

GEORGIAN BAY SYSTEM

High-voltage Lines

Construction was completed of a single-circuit, 38,000-volt line between a point south of Waubaushene switching station and a new transformer station at Fergusonvale, a distance of 16 miles. This line consists of twin-pole structures and 336,400 circular-mil aluminum cable, steel-reinforced, with 110,000-volt clearances. Its location is such that it will be part of future facilities for the transmission of power from generating stations on the Severn and Musquash Rivers.

A double-circuit, 38,000-volt, wood-pole line, 0.5 of a mile long, was built between Waubaushene switching station and the beginning of the new single-circuit line.

Severn District

At Painswick distributing station, Thornton and Buckskin junctions, modern, air-break switches were erected to replace an older type.

Between Fergusonvale switching station and Collingwood distributing station, a total distance of 27.11 miles, the 22,000-volt insulators were removed from one circuit only and replaced by 38,000-volt. This work, coupled with similar construction in the Eugenia district, provides a 38,000-volt tie line between the Severn and Eugenia districts.

Due to the widening of highway No. 9, it was necessary to divert approximately 2 miles of the 22,000-volt, Cookstown distributing station-Tottenham junction, wood-pole line.

Eugenia District

The existing Eugenia generating station-Collingwood distributing station circuit was revised for 38,000-volt operation by the replacement of insulators on an 8.35-mile section and the rearrangement of conductor spacing for the total distance of 24.22 miles.

Guys were relocated between Chesley distributing station and Walkerton junction in order to provide clearance to work being done on a telephone company's adjacent line.

Wasdells District

At Severn junction a two-pole bus structure, equipped with sectionalizing clamps, was erected to facilitate the interchange of power between the Wasdells district and the Orillia tie line in cases of emergency.

EASTERN ONTARIO SYSTEM

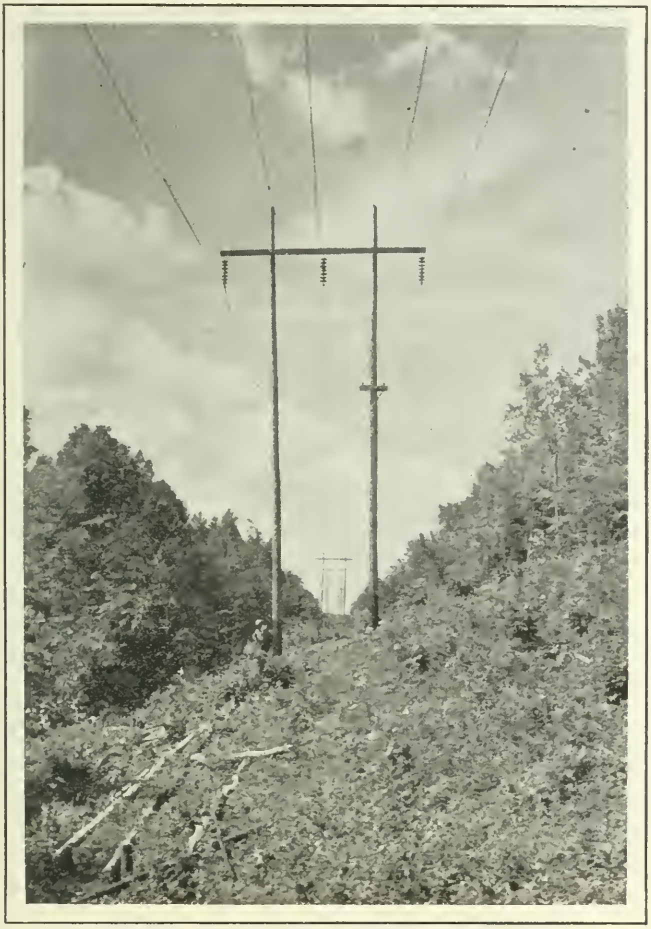
High-voltage Lines

An important addition to the transmission system of this district was made by the completion of 120.32 miles of single-circuit, 110,000-volt, twin-pole line. This line will transmit 60-cycle power from Chats Falls generating station to the new transformer station at Trenton.

Central Ontario District

Transpositions were revised in 13.62 miles of the double-circuit, 44,000-volt Warkworth distributing station-Newcombe junction line in order to reduce inductive effects in paralleling communication circuits.

Between the recently acquired Lakefield generating station and Auburn transformer station, 7.67 miles, a single-circuit, 44,000-volt, wood-pole line was completed.

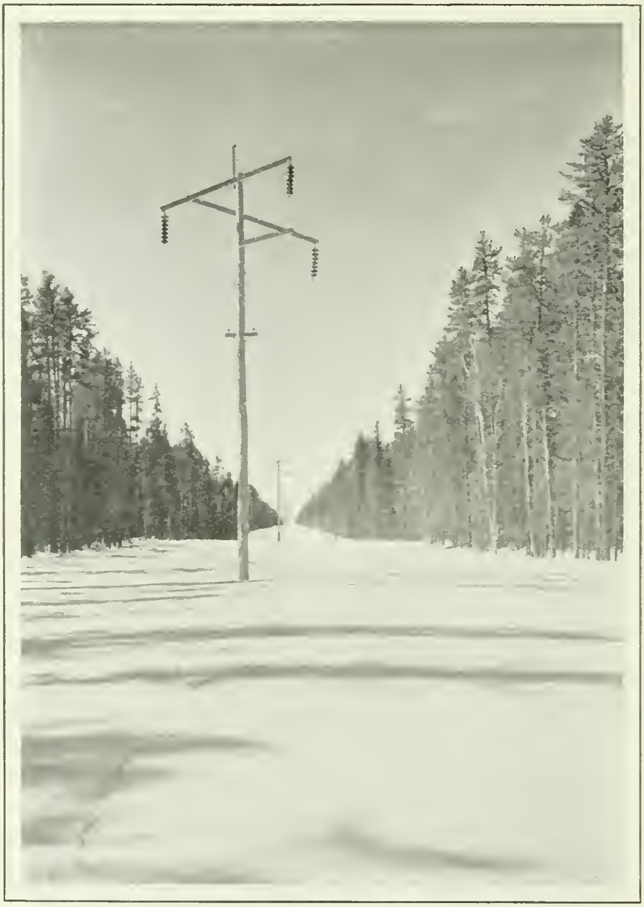


TRANSMISSION LINES—EASTERN ONTARIO SYSTEM
Standard structure 110,000-volt line, Chats Falls to Trenton

THUNDER BAY SYSTEM

Construction was completed of 93 miles of 110,000-volt, wishbone-type, wood-pole line between Cameron Falls generating station and Long Lac transformer station. This line augments the 44,000-volt services placed in operation in previous years and was made necessary by the rapid increase of load in the Long Lac mining area. The route, in general, follows the course of the new highway.

Between a junction established approximately three miles south of Nipigon and the Lake Sulphite Company's substation, 2 miles of 110,000-volt, wood-pole line were built.



TRANSMISSION LINES—THUNDER BAY SYSTEM

A typical wishbone type pole on the 110,000-volt line, Cameron Falls generating station to Long Lac transformer station

Transmission lines previously owned by private interests for the supply of power to mines in the Beardmore-Little Long Lac area were taken over by the Commission and incorporated in the Thunder Bay transmission system. These 44,000-volt lines, totalling 115.09 miles, when built were made to conform to Hydro standards. Included in this mileage is a line between Cameron Falls transformer station and Northern Empire Mines, 47.73 miles long, which was built by the Commission for the mine in 1933.

The recently constructed wood-pole line to the Sand River Gold Mines and the Leitch Gold Mines was connected to the Cameron Falls-Beardmore, 44,000-volt line at Empire.

Relocation was completed of 14 poles on Canadian National Railway property near Beardmore station to clear new industrial sidings.

TRANSMISSION LINES—THUNDER BAY SYSTEM

Angle structures 110,000-volt line Cameron Falls generating station to Long Lac transformer station

NORTHERN ONTARIO PROPERTIES

Abitibi District—132,000-volt lines

A new junction was established on the Hunta-Timmins steel-tower line and a single-circuit, wood-pole line, 8.15 miles long, was constructed to a transformer station near Pamour-Porcupine Mines Limited.

Other Lines

A double-circuit, 26,400-volt, wood-pole line, 1,250 feet long, was constructed to connect the Pamour-Porcupine Mines transformer station with the new 132,000-volt transformer station.

Between Larder Lake transformer station and Kir-Vit Mines, construction of a single-circuit, 26,400-volt, wood-pole line was completed, a distance of 3 miles.

A similar line, 6 miles long, was constructed to the Kerr-Addison Gold Mines.

Between a junction established near the Kirkland Gold Rand mine and the Golden Gate Mining Company's property, a distance of 4 miles, a 26,000-volt line was built. This line will operate at 11,600 volts.

The Lakeside Kirkland Gold Mines and the Continental Kirkland Mines were connected to the Bidgood line by the construction of two short stretches of 11,600-volt, single-circuit, wood-pole line.

Construction was completed of a single-circuit, 26,400-volt, wood-pole line between Paymaster Consolidated Mines station and the Preston East Dome Mines station, a total distance of 1.47 miles.

Between Simpson Lake junction and Delnite mines, 2.70 miles of single-circuit, 26,400-volt, wood-pole line was constructed. A short tap from this line was completed to the Buffalo-Ankerite Gold Mine station.

The Mace Gold Mine station was connected to the Pamour-Timmins 26,400-volt line.

A short stretch of single-circuit, 26,400-volt line was constructed between Timmins transformer station and the Moneta Porcupine Mines station.

Sudbury District

The recently purchased Crystal Falls generating station was incorporated into the Sudbury district by the construction of 46.23 miles of single-circuit, 44,000-volt, wood-pole line, terminating at Coniston generating station. This line has 110,000-volt conductor spacing and is equipped with a telephone circuit.

St. Joseph District

The Albany River Mine station was connected with the Pickle Crow Mine station by the construction of 1.5 miles of single-circuit, 22,000-volt, wood-pole line.

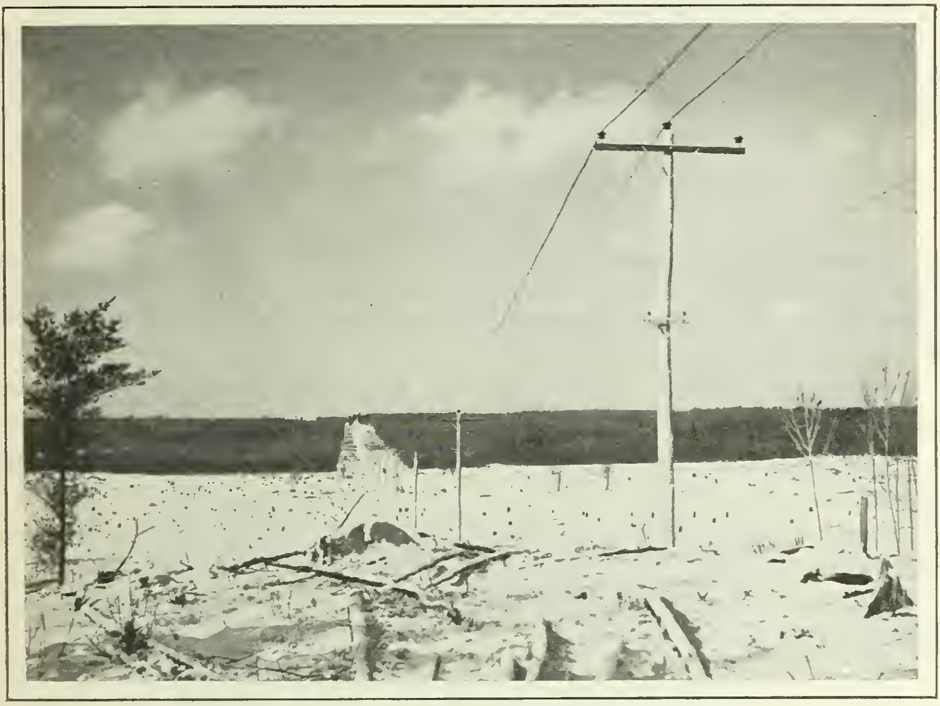
TELEPHONE LINES—ALL SYSTEMS

Sections of telephone pole lines were rebuilt in the Niagara and Georgian Bay systems to provide joint use accommodation for rural power and telephone circuits.

Between Newmarket distributing station and Bradford distributing station 9.5 miles of telephone circuit was erected on existing power and separate telephone poles to provide telephone facilities between Toronto and the Georgian Bay system.

Telephone circuits were diverted and rebuilt in the vicinity of St. Catharines for a distance of 2.6 miles. The Welland Ship Canal crossing at Allanburg together with the circuits in the vicinity of St. Thomas transformer station were rebuilt to improve telephone service in the Niagara system.

In the Georgian Bay system, the telephone circuits were renewed and re-coordinated with power circuits between Markdale junction and Berkeley distributing station, a distance of 4.8 miles.



TRANSMISSION LINES—NORTHERN ONTARIO PROPERTIES
Standard construction 26,400-volt line Ankerite Junction to Delnite Mines

DISTRIBUTION LINES AND SYSTEMS

In Appendix III is shown, in tabular form, and summarized, the progress made in the installation of new rural lines in rural power districts.

The summary indicates a total construction during the year of 2,008 miles of completed line, and service given to 11,064 consumers. These figures form an interesting comparison with our previous record year, in 1930, of 1,890 miles of completed line construction, and service given to 9,198 consumers.

In addition to general construction work certain studies and investigations have been made.

Early in the year a study was completed on the probable storm loading of pole lines. Data on ice and wind storms during the past forty years were obtained from the meteorological offices at Toronto and Buffalo. This information confirmed the findings of engineers in nearby territory that coincident ice and wind loading, commonly provided for in design, does not occur. It is therefore proposed to revise the standards of rural line construction, effecting a considerable saving in initial cost. Further investigation has been made to ascertain the economical type of construction for rural lines under various local conditions.

Engineering advice was given in connection with joint use of poles between the Bell Telephone Company and several municipalities.

The following pages contain brief reference to rural power districts, municipal and feeder lines, of the various systems, where the development during the year has been of particular interest.

NIAGARA SYSTEM

Rural Line Construction

Aylmer R.P.D.—N11D2—Extensions totalling 39 miles of new line were built, and service given to consumers in the village of Vienna. This being an incorporated village, special legislation was required to permit consumers to be served as part of the rural power district.

Blenheim R.P.D.—N14D3—Service was given to consumers in the vicinity of Buxton and Cedar Springs.

Bothwell R.P.D.—N14D10—Extensions totalling 22 miles of new line were built partly in the vicinity of Moraviantown.

Brant R.P.D.—N12D1—Extensions totalling 42 miles of new line were built during the year to serve farm consumers.

Caledonia R.P.D.—N2D5—Consumers in the vicinity of Bingdon and Caistorville were given service.

Chatham R.P.D.—N14D1—Extensions totalling 28 miles of new line were built in the vicinity of Paincourt, Dover Centre, Baldoon, and Mitchell Bay.

Dresden R.P.D.—N14D12—Extensions totalling 24 miles of new line were built and service given to consumers in the hamlets of Wabash, Garville and Dawn Valley.

Essex R.P.D.—N15D7—Extensions totalling 17 miles of new line were built in the vicinity of Woodslee, Barretville and Cottam.

Haldimand R.P.D.—N2D8—Extensions totalling 24 miles of new line were built during the year to serve farm consumers.

Kingsville R.P.D.—N15D5—Extensions totalling 19 miles of new line were built and service given to consumers in the vicinity of Windfall.

Lucan R.P.D.—N4D5—Extensions totalling 23 miles of new line were built to serve farm consumers.

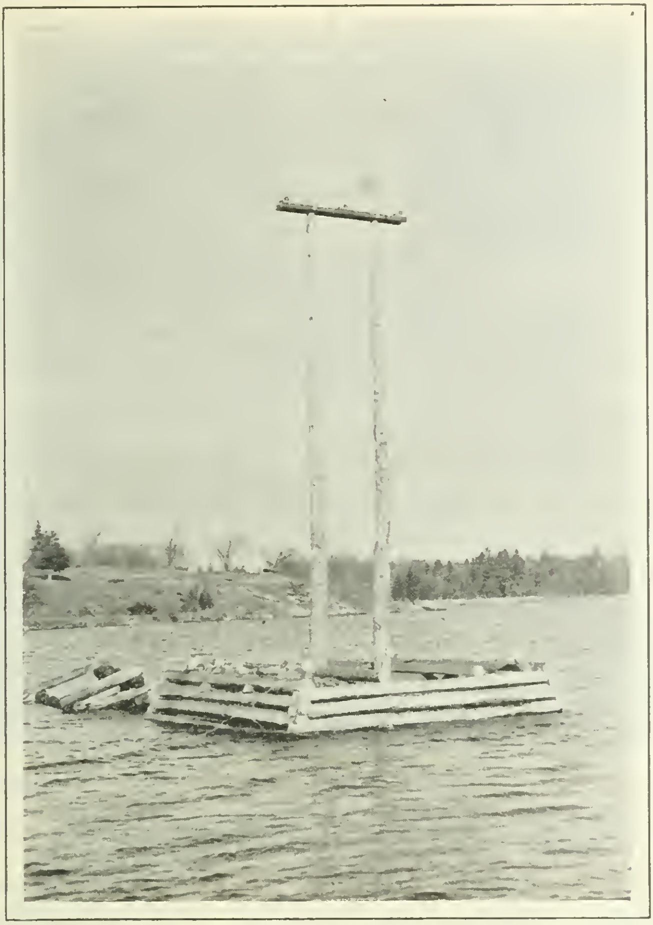
Merlin R.P.D.—N14D15—Extensions totalling 12 miles of new line were built in the vicinity of North Buxton, Fletcher, and Jeanette Creek.

Oil Springs R.P.D.—N18D3—To improve voltage conditions in the hamlet of Inwood and vicinity, nine miles of existing single-phase line were changed to three-phase

Sarnia R.P.D.—N18D4—Extensions totalling 18 miles of new line were built in the vicinity of Corunna, Point Edward and Perch.

St. Marys R.P.D.—N9D1—Extensions totalling 19 miles of new line were built to serve farm consumers.

St. Thomas R.P.D.—N11D1—Extensions totalling 27 miles of new line were built to serve farm consumers.



DISTRIBUTION LINES NEAR CALABOGIE
Twin pole and crib installation in ten feet of water

Strathroy R.P.D.—N4D4—Extensions totalling 27 miles of new line were built to serve farm consumers.

Thamesville R.P.D.—N14D11—Extensions totalling 16 miles of new line were built in the vicinity of Florence and Shetland.

Tilbury R.P.D.—N14D14—Extensions totalling 19 miles of new line were built in the vicinity of Quinn and Windfall.

Wallaceburg R.P.D.—N14D13—Extensions totalling 33 miles of new line were built and service given to consumers in the hamlets of Mitchell Bay, Baldoon, and Tupperville.

Walsingham R.P.D.—N12D7—Extensions totalling 51 miles of new line were built during the year to serve farm consumers.

Woodstock R.P.D.—N10D2—Extensions totalling 22 miles of new line were built to serve farm consumers.

GEORGIAN BAY SYSTEM

Rural Line Construction

Bruce R.P.D.—E19D1—Extensions totalling 15 miles of new line were built and most of the district was changed from 4,000 to 8,000 volts.

Creemore R.P.D.—S10D2—Extensions totalling 23 miles of new line were built to serve farm consumers.

Elmvale R.P.D.—S7D1—Extensions totalling 18 miles of new line were built in this district, previously inactive, to serve farm consumers.

Flesherton R.P.D.—E1D1—Extensions totalling 11 miles of new line were built in the district which had previously been quite inactive.

Hawkestone R.P.D.—S9D1—Extensions totalling 18 miles of new line were built during the year to serve farm consumers. This district was previously quite inactive.

Huntsville R.P.D.—M2D1—Extensions totalling 29 miles of new line were built and service given to consumers in the hamlets of Novar, Scotia and Emsdale.

Innisfil R.P.D.—S31D1—Conductor was changed for a distance of 8.5 miles to provide for increasing load.

Kirkfield R.P.D.—W6D1—The Victoria Road municipal distribution system was purchased and extended to serve consumers at Balsam Lake and vicinity. This was the first line built in the district.

Orangeville R.P.D.—E12D1—Extensions totalling 28 miles of new line were built in the district, previously inactive, and service given to consumers in the hamlets of Mona Mills and Hawkley.

Ripley R.P.D.—E24D2—Extensions totalling 27 miles of new line were built in the district, previously inactive, and service given to consumers in the hamlets of Bervie and Kinloss.

Sauble R.P.D.—E46D1—Service was given to consumers in the hamlets of Shallow Lake and Oxenden.

Tara R.P.D.—E15D1—Service was given to consumers in the hamlet of Parkhead and vicinity.

Wroxeter R.P.D.—E22D1—Service was given to consumers in the hamlet of Belmore.

EASTERN ONTARIO SYSTEM

Rural Line Construction

Belleville R.P.D.—C38D1—Extensions totalling 33 miles of new line were built and service given to consumers in the hamlets of Melrose and Chatterton.

Brockville R.P.D.—L3D1—A new tie line was built from Lyn distributing station to the village of Lyn and conductor changed on 10 miles of existing line to improve voltage at Lansdowne, Ivy Lea, and vicinity.

RURAL DISTRIBUTION AT NORTH BAY

Step-up transformer and metering installation to supply 8,000-4,600 volt service to rural lines

Chesterville R.P.D.—L5D1—Extensions totalling 37 miles of new line were built, and service given to consumers in the hamlet of Limoges.

Cobourg R.P.D.—C13D1—Extensions totalling 22 miles of new line were built and service given to consumers in the hamlet of Garden Hill.

Kingston R.P.D.—C44D1—Extensions totalling 54 miles of new line were built during the year.

Martintown R.P.D.—L13D1—Service was given to consumers in the hamlet of North Lancaster and vicinity.

Minden R.P.D.—G37D1—Extensions totalling 18 miles of new line were built to serve Summer resort and farm consumers.

Napanee R.P.D.—C43D1—Extensions totalling 68 miles of new line were built to serve farm consumers.

Oshawa R.P.D.—C24D1—Extensions totalling 26 miles of new lines were built to serve farm consumers.

Sulphide R.P.D.—C34D1—Extensions totalling 15 miles of new line were built, being the first line in the district, and service was given to consumers in the hamlets of Thomasburg and Stoco.

Wellington R.P.D.—C45D1—Extensions totalling 29 miles of new line were built and service given to consumers in the hamlet of Cherry Valley and vicinity.

Municipal Distribution System

Prescott—L201—On request of the Public Utilities Commission a complete survey of the distribution system was made, plans were prepared, and recommendations submitted for necessary rebuilding.

THUNDER BAY SYSTEM

Municipal Distribution Systems

Geraldton Townsite—P1606—A complete distribution system was built.

Beardmore Townsite—P1206—A complete distribution system was built.

MANITOULIN RURAL POWER DISTRICT

Manitoulin R.P.D.—MR1D1—Consumers in the hamlet of Providence Bay were given service.

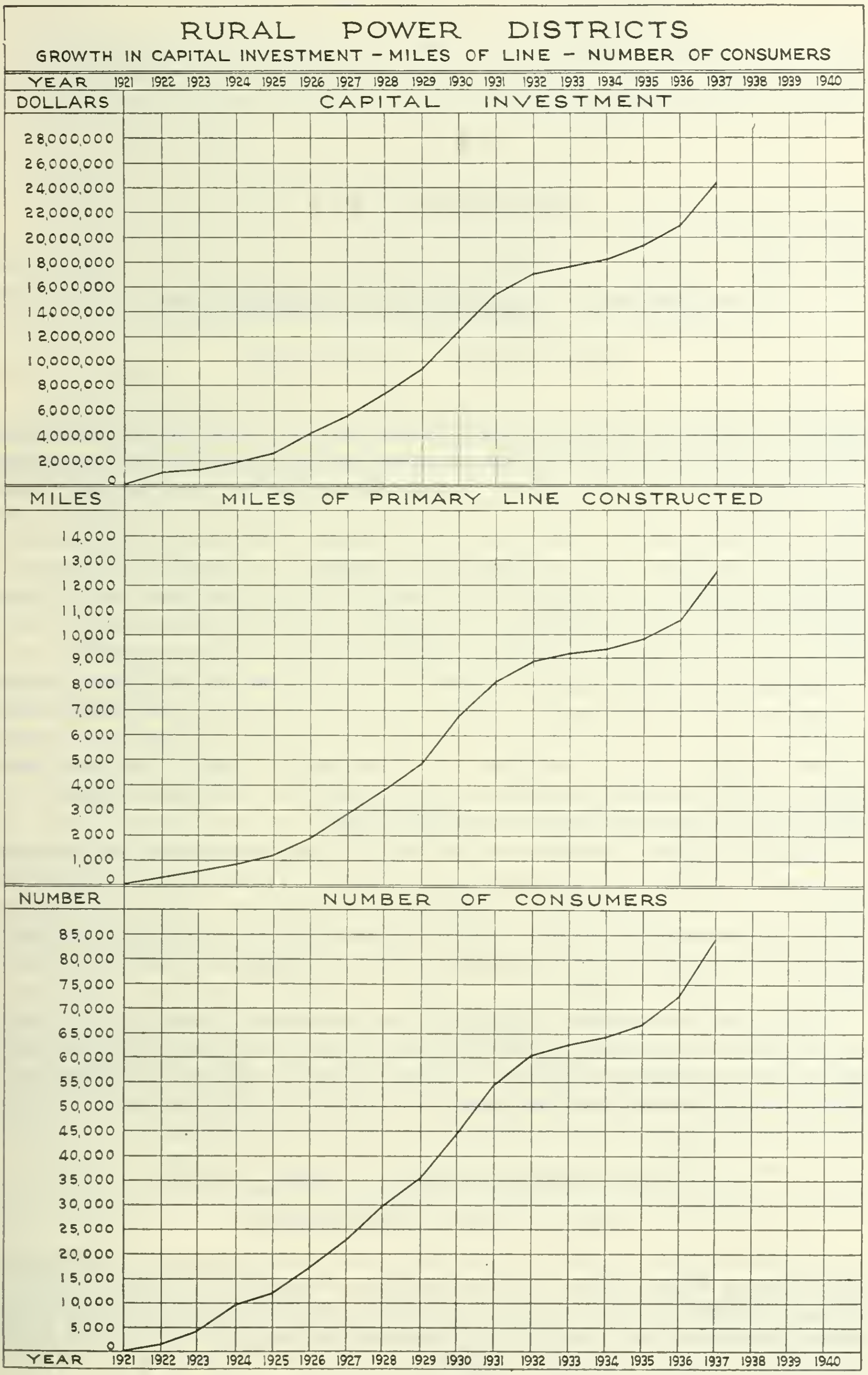
NORTHERN ONTARIO PROPERTIES

Rural Line Construction

North Bay R.P.D.—Z4D1—The voltage in part of the district was changed from 4,000/2,300 to 8,000/4,600 volts to improve service in the denser populated area.

Municipal Distribution Systems

King Kirkland Townsite—F.A. 1607—A complete distribution system was built.


RURAL POWER DISTRICTS
GROWTH IN CAPITAL INVESTMENT – MILES OF LINE – NUMBER OF CONSUMERS
YEAR
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
DOLLARS
CAPITAL INVESTMENT
28,000,000
26,000,000
24,000,000
22,000,000
20,000,000
18,000,000
16,000,000
14,000,000
12,000,000
10,000,000
8,000,000
6,000,000
4,000,000
2,000,000
0
MILES
MILES OF PRIMARY LINE CONSTRUCTED
14,000
13,000
12,000
11,000
10,000
9,000
8,000
7,000
6,000
5,000
4,000
3,000
2000
1,000
0
NUMBER
NUMBER OF CONSUMERS
85,000
80,000
75,000
70,000
65,000
60,000
55,000
50,000
45,000
40,000
35,000
30,000
25,000
20,000
15,000
10,000
5,000
0
YEAR
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940

SECTION VII

TESTING—RESEARCH—INSPECTION

PRODUCTION AND SERVICE

THE Laboratories of the Commission handle a very wide variety, and large quantities of materials and equipment, testing, inspecting and checking to insure good quality and proper characteristics. Metals, concrete, paint and other materials entering into construction are examined and subjected to routine or special tests to determine their suitability for the purposes intended. Completed products, such as generators, turbines, transformers, oil circuit-breakers, metering and lighting equipment, and also cables and conduit, are thoroughly inspected and their characteristics checked to make certain that they comply with the specifications under which they are being supplied.

Research work is constantly carried on to improve processes and quality and performance of equipment, to reduce cost where possible and to find causes of failure in service. The Research Committee, through its twelve sub-committees, brings to the Laboratories the Commission's specific problems and assists in their solutions by close co-operation. Many of these problems have been solved and very successful results obtained.

Another important work is the examination and test of such devices and fittings as are commonly used by the general public to insure that these provide suitable protection against shock and fire. The particular value of this work appears in the relatively small number of serious electrical accidents to persons or property in this Province, considering the very widespread use of electrical power.

Inspection of electrical installations on industrial, commercial and residential premises has been carried on continuously throughout the year and has shown considerable increase over 1936. This work also contributes to the minimizing of accident and fire hazard by insuring a high standard of workmanship and the use of only approved materials and equipment.

TESTING AND RESEARCH LABORATORIES

Routine and General Testing

A large number of routine tests have been made and many inspections without tests. These covered various materials, devices and equipment, which are continuously flowing into the Laboratories, and the tests determine their quality, and safety or hazard in the hands of the public. The total of these tests during the year was about 57,000.

Materials and Equipment Inspection

There has been a marked increase in the testing of cement, paint, and other building materials, and also conduit and tubing. Due to further extension of rural lines, and other protective features, factory inspection of fused switches increased considerably.

Transmission Line Materials.

The usual inspections of all transmission line materials passing through the Strachan Avenue stores have been made; these included insulator pins, cross arms, brackets, and general line hardware. In addition, copper wire, steel-reinforced aluminum and galvanized steel cable were inspected. The tonnage amounted to 2,964, about 145 per cent greater than last year.

Steel and Timber

The amount of reinforcing steel inspected has increased, the total being 170 tons. In addition to this, steel stop-logs and stop-log timbers were inspected and there were 103 tons of galvanized steel sheet. Miscellaneous items included racks, steel anchors and timber sills.

Concrete

Resident concrete inspectors were assigned to five large construction projects. These inspectors kept careful check on the quality of the ingredients used in the concrete mix, on their measurement and mixing and on the placing and final curing of the concrete. For several smaller jobs, specimens of concrete from the field were tested at the Laboratories, on the others field laboratories were maintained.

Paint

Many routine tests on paints were carried out. Manufacturers' samples are tested regularly to check both quality and colour, and approved brands are constantly being added as new paints of the required quality appear on the market.

Electrical Equipment

Electrical factory inspection included one 4,500-kv-a generator, 103 power transformers, totalling 71,860 kv-a, about 9,000 distribution transformers, five oil-circuit breakers, 104,000 kv-a, and 3,000 disconnecting switches of various types with total rated capacity of 1,620,500 kv-a. The generator was supplied for extension of the Ear Falls development, and the transformers, oil circuit-breakers and disconnecting switches had been purchased for the various power systems of the Commission.

Routine tests also were made in the Laboratories on rubber gloves, other rubber products, insulating oils, insulators, small transformers, motors, meters, thermostats and a number of miscellaneous items.

Lamps and Lighting Service

There was a large increase in the number of lamps inspected and tested. More than 78,000 lamps were checked at the factory, and 4,000 lamps were subjected to life tests at the Laboratories.

With the increasing appreciation of the value of good lighting, there were 215 lighting plans requested and prepared, about 50 per cent more than in 1936. Of these, more than 100 were for schools, a total of 546 rooms, chiefly in small towns and villages, which indicates a definite desire on the part of such municipalities to improve the illumination of their public buildings.

Inspections and surveys of lighting were made on 200 premises, nine lectures were delivered, and the benefits of good lighting were discussed with many small groups.

Various tests were made on red reflex and left-turn signals, and on safety glass, for the Provincial Department of Highways, and there were 108 miscellaneous tests, on "better-sight" lamps, transmission through plastic materials paint gloss and reflection from acoustical plaster, also light distribution and efficiency of certain fixtures. Some additional work was done in calibration of intensity meters.

Mechanical Equipment

One 5,000-horsepower turbine has been inspected during construction, and also a 50-ton overhead crane. In addition to these, separate machine parts included two large spare guide bearings and a replacement shaft for one of the generators at Queenston. Equipment under construction in England and in Germany was inspected at the manufacturers' plants by local inspectors under the direction of the Testing and Inspection department.

Research

As in previous years, the research investigations may be classified according to purpose. Some have broad application whereas others are directed toward the solutions of particular problems.

New Methods and Materials

New devices, materials and methods investigated include a wood-pole stubbing collar, sectional steel poles, improved linemen's safety equipment, weld metals, and material for patching concrete surfaces.

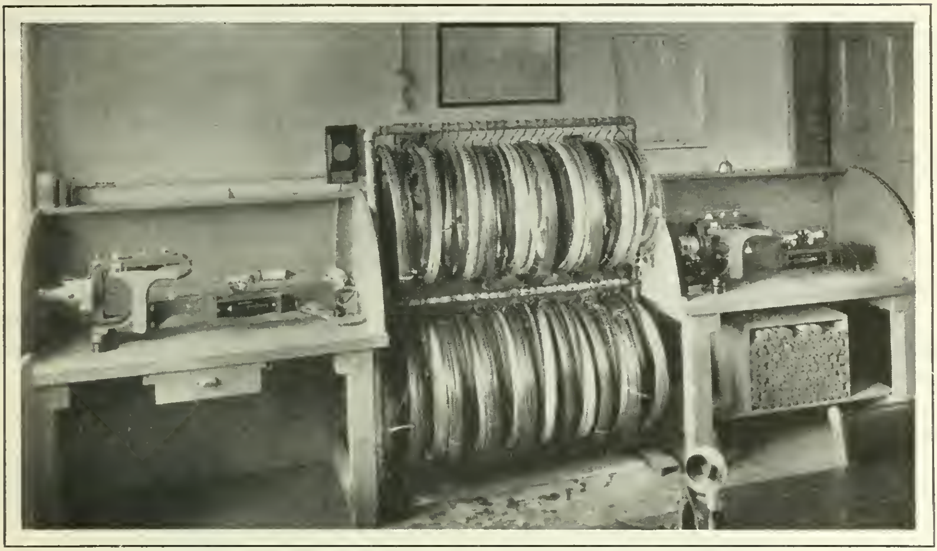
The stubbing collar has proved to be a very successful means of reinforcing poles that have deteriorated at the ground line. Further tests on this device are being made.

The new steel pole for distribution systems presents certain advantages in handling and storage. A sample was brought in from England, set up at the Laboratories and tested to destruction.

A method of measuring the pressure exerted against the jack screws by the discs of Kingsbury thrust bearings has been developed this year. A new type of instrument is used for this purpose, and satisfactory measurements have been made with it.

Investigation of Troubles

To prevent repetition, it is important that failures be investigated and their causes determined. In 1937, a number of failures and conditions leading to trouble, were studied, including the following: A cracked generator shaft,



FATIGUE TESTING MACHINES FOR DETERMINING THE ENDURANCE LIMITS OF CONDUCTOR MATERIAL

These are being used at present in the testing of steel wire

corroded and broken tower bolts, deteriorated bus bar and lead cable, and pitted water pipes, some destroyed by cooling water and others corroded by the soil.

Electrical faults in equipment under factory witness test have been determined by the Commission's testing engineers where, in order to obtain the necessary information, special methods of measurement had to be devised. Operating troubles in a temporary power plant on a construction project required investigation by the Laboratories to correct the faults.

A large number of bushings which failed in service have been dismantled and examined to determine the nature of the faults with a view to preventing such failures, and consequent interruptions to service, in the future.

Investigations Leading to Improvements in Methods and Material

Research investigations in the Laboratories are largely directed toward improvement in quality or performance of materials or equipment. In many cases the study of defects is the first step toward such improvement. The solutions of problems appearing in the field frequently result in improved methods or processes.

The method of determining faults in live high-voltage bushings has been improved by new interpretations of the results, giving additional valuable information.

The physical characteristics of conductor materials have been further investigated, particularly towards determination of the modulus of elasticity for better understanding of fatigue tests.

Methods of repairing concrete have been studied for some years and a material has been found that may be suitable for shallow patches on concrete surfaces. Investigation of the characteristics of this material was carried on this year, but is not yet completed.

Further studies of concrete are being made to gain a better understanding of the causes of disintegration so that a method of reducing this trouble may be found.

An improvement was made in mechanics' hand soap.

Tree-wound Dressings

Field and laboratory experiments were made on tree-wound dressings used by the Commission, and a more suitable preparation has now been provided.

Paints

Special work was done to determine the ability of various paints to withstand exposure to seepage water. Check tests also were made on various brands of exterior non-fading paints in use on station operators' houses.

Treatment of Wood Poles

The sand-creosote collar developed for the prevention of ground-line deterioration of wooden poles has been applied very extensively this year. The effects of frost, and behavior of the sand filler after re-treatment, have been investigated and the proportions of creosote in the sap-wood, and remaining in the sand, have been measured in a number of installations. Soluble salts were tried as wood preservatives and some progress has been made in their use. The advantages of adding certain insecticides to creosote in treating poles has also been investigated.

Petroleum Products

The filtering of insulating and lubricating oils was the subject of considerable study to ascertain the effect on the body of the oil, and to determine the most suitable filter papers, and operating pressure and temperature. Different types of filters for use on automobiles were examined and tested, and information for guidance in the selection of such filters was given to the departments concerned.

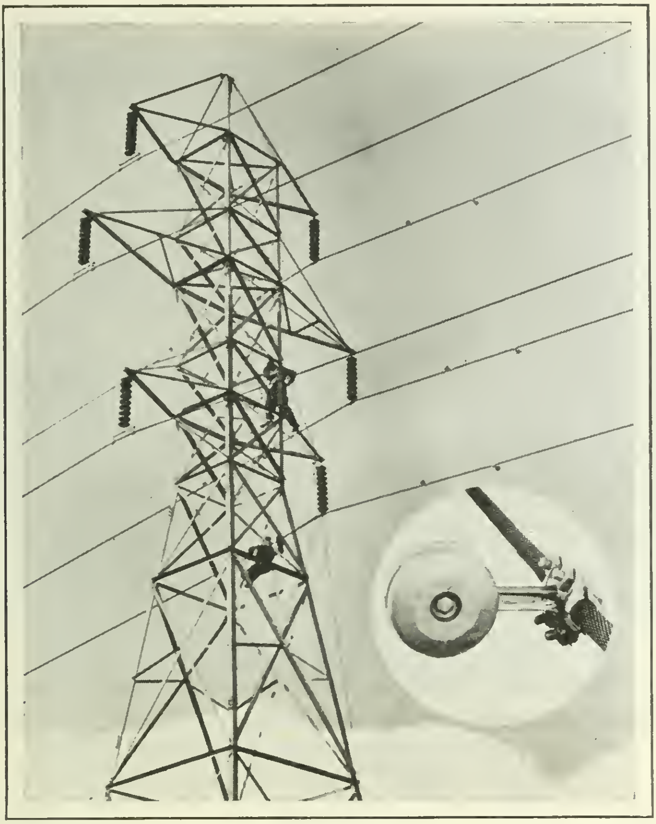
Lubricating oils and greases have been further investigated and classified with a view to reducing the number of grades required by the Commission. Cable lubricants also have been tested.

Bushings

The study of transformer bushings has been extended by more than 1,500 field tests to prove the value of the method for use in locating trouble in such bushings prior to failure.

Electric Soil Heating

The Laboratories have assisted in the experiments on electric soil heating carried out in co-operation with growers and in the special electrically-heated greenhouse at Niagara Falls. A systematic study of various applications has been made which showed the desirability of this type of electrical load and a



INSTALLATION OF TORSIONAL VIBRATION DAMPERS ON THE CONDUCTORS OF A 110,000-VOLT TRANSMISSION LINE

Inset—An enlarged view showing the type of damper being used in investigations

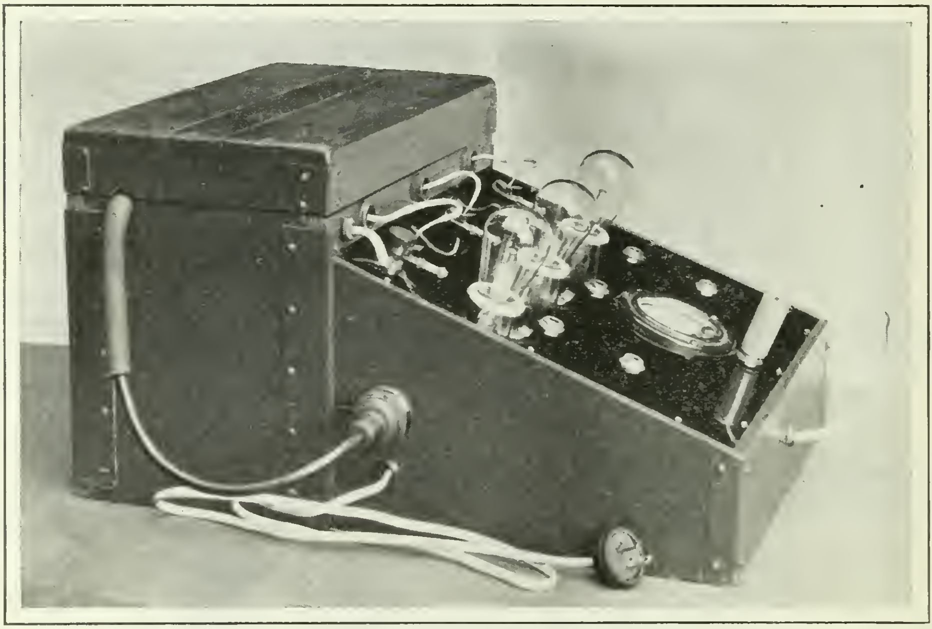
possible market for power. The value of the method has been successfully demonstrated, and it evidently has advantages in simplicity and convenience over other methods now in use.

The most important work done during 1937 was the study of design for greenhouses and hot beds, the determination of desirable types of heating units and their installation, and the values of heat fluxes required, all of which information is now available to growers who are considering this application of electric current.

Welding

By means of the oscillograph, the power demands of various types of resistance welders have been investigated with a view to establishing equitable rates for power supplied for such services.

Electric welding has been further studied to find the best methods of checking the work while it is being done and of testing the results. Specifications for arc welding were prepared, and in these are incorporated the methods which have proved most satisfactory.



SPECIAL INSTRUMENT FOR DETERMINING THE DEGREE OF IMPREGNATION OF ELECTRICAL INSULATING COMPOUNDS IN THE FIBROUS COVERINGS OF HEAT-RESISTING FIXTURE WIRE

Vibration

The vibration of transmission line conductors has received considerable attention; the problems are being clarified and definite progress has been made during the year. A large number of tests were carried out to determine the endurance characteristics of conductor materials, and the fatigue limits and other physical properties of steel ground wire.

Additional investigations in the field have produced further useful information as to the behavior of clamps and suitable means for damping vibrations.

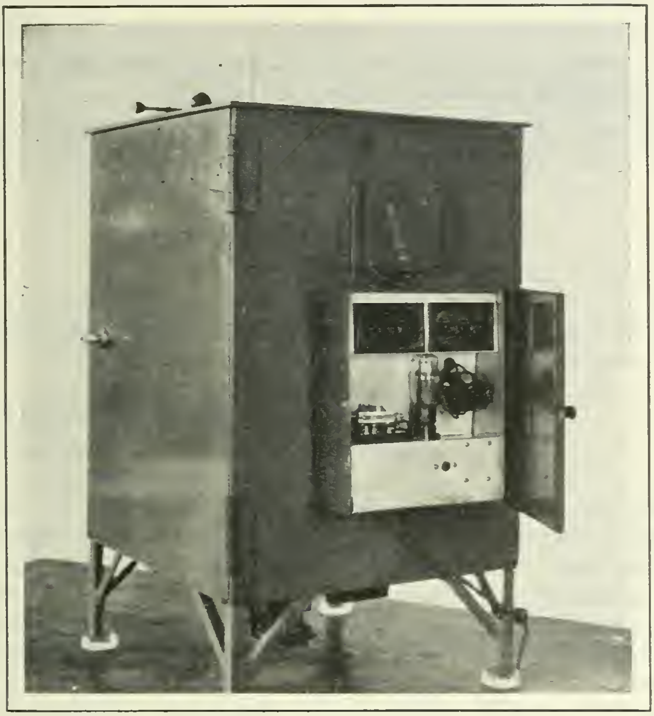
Remote Control

Different methods of remote control of loads have been studied and several demonstrations by manufacturers were witnessed. The Laboratories assisted a local manufacturer in the development of a street lighting relay of good characteristics but to sell at lower price than those otherwise obtainable.

Miscellaneous Research

Anti-corrosion treatments were applied to aluminum sleeve joints and their effect on the electrical characteristics investigated. Reports on the relative merits of dry and greased sleeves were prepared.

Studies were made to select a suitable asphalt mixture for waterproofing the walls and wheel pits of the Calabogie power plant.



ELECTRIC OVEN, WITH FORCED CIRCULATION OF AIR, AND SENSITIVE ELECTRONIC TEMPERATURE CONTROL

Used in testing the heat-resisting qualities of rubber insulation on wires and cables

Miscellaneous

New Equipment

New problems have necessitated the purchase of additional equipment for the Laboratories, including a cable-vibration generator, two balances and two recording thermometers.

A special instrument for determining the degree of impregnation of insulating compounds in the fibrous coverings of heat-resisting fixture wire was designed and built by the Laboratories. This device provides valuable information, for the insulation quality of asbestos or cotton coverings depends almost entirely upon thorough penetration by these compounds.

A special electric oven for submitting rubber compounds and other materials to high temperatures was constructed. This oven is insulated with rockwool and the heat is distributed within it by forced circulation of air. A unique feature is the electronic temperature control, designed by a member of the laboratory staff; this is an exceptionally sensitive and satisfactory system which maintains the temperature within 0.05 degree (Centigrade) of the desired point. Continuous tests over periods as long as two months were carried out successfully in this oven.

Specifications and Committee Work

Specifications for electric arc welding and for filter papers for oil filters, have been prepared, and existing specifications on galvanized ground and guy wire and on reinforced aluminum cable were revised.

In addition, a large number of meetings of standardization committees have been attended by members of the staff.

APPROVALS LABORATORY

Statistical

Comparative figures for tests and inspection carried out by the Approvals laboratory during the past three years are as follows:

	1935 number	1936 number	1937 number
Applications received			
Approval	696	770	793
Special Inspections, etc.	362	320	395
Listing only	32	61	44
Factory Inspection Reports			
Wire and Conduit	....	850	573
All Other	4,928	4,862	4,831
Labels sold			
Cord, Wire, Cable, etc.	499,000	594,000	765,800
Conduit	653,600	900,000	1,101,150
All other	1,435,900	1,865,500	2,468,860
Labels sold—Total	2,588,500	3,359,500	4,335,810

There was an increase in applications for approval and special inspections, and an increase of nearly 30 per cent in the number of labels sold. Although the tabulated figures do not indicate it, there actually was a greater amount of work done on factory inspection than in former years.

The quantity of wire, cable and conduit labelled in 1937 was substantially greater than in each of the two previous years, as is shown in the following table:

	1935 M-ft.	1936 M-ft.	1937 M-ft.
Insulated wires (including R.C. fixture wire and heat-resisting wire and cord)	87,750	109,230	151,200
Insulated flexible cord	21,750	30,125	33,250
Heater cord	5,625	5,375	6,725
Armoured cable	8,250	11,560	13,300
Flexible steel conduit	200	250	300
Flexible non-metallic tubing	5,250	5,000	6,250
Non-metallic sheathed cable	7,300	12,350	18,450
Rigid steel conduit (including elbows and nipples)	6,536	8,500	11,000

There have been 621 factory inspections of wiring materials, and 1,067 inspection reports were prepared and forwarded to manufacturers.

A few new types of electrical appliances and devices were approved. The 1937 summary given below shows an increase in the work done, and includes recent designs in electric organs, electric shavers, radio inter-communicating systems, short wave therapeutic equipment and ice cream freezers, as well as certain new devices for garage use and for the printing industry.

	1935 number	1936 number	1937 number
Motor-driven appliances (including motors)	186	214	249
Electrically-heated appliances	192	191	163
Wiring devices (including temperature regulators)	88	111	71
Lighting devices (including electric signs)	87	115	104
Industrial control devices (including transformers, capacitors and rectifiers)	22	19	22
Wire, cable and cord (including cord-sets, and service-entrance cable)	8	22	14
Radio, sound and picture appliances (including devices for the suppression of radio interference)	32	34	47
Miscellaneous equipment and materials (including medical and dental equipment, welding machines and thermal insulation)	81	64	115

Preliminary investigations were made on electric fence equipment, the hazards considered and recommendations regarding its use forwarded to the Electrical Inspection department.

A new synthetic rubber for hard-service flexible cords and a special rubber for use at high temperatures were investigated. A new coating for rigid steel conduit was tested but not approved. The investigations also included non-metallic sheathed cable, of six different manufacturers, following reports that some such cables installed in root houses, stables, etc., had shown excessive deterioration.

PRODUCTION AND SERVICE DEPARTMENT

The machine shop, carpenter shop and garage repair shop constitute this department. Their primary functions are the building of equipment and devices designed by the engineering departments, and the repair and maintenance of the Commission's fleet of approximately 250 trucks.

The production of this department includes line hardware, joint-making hand presses for line conductors, hydraulic and oil filter presses, air-break and isolating switches, panels and accessories, air-insulated current transformers, tap changers and telephone booth equipment, all of which is specially designed for the Commission's requirements. Considerable furniture and other wood repair work has also been done.

As part of the truck maintenance program, a periodic inspection was made of the condition of all trucks operating in the southern part of the Province. Thirty-five of the Commission's trucks were overhauled and reconditioned at the garage, and this department has co-operated with all sections which make use of these trucks to insure the most efficient service.

A large amount of construction plant equipment has been supplied to various projects. This includes 7 gasolene power units which were assembled and put into operation, also some separate generators, and several tractors which were overhauled at the garage.

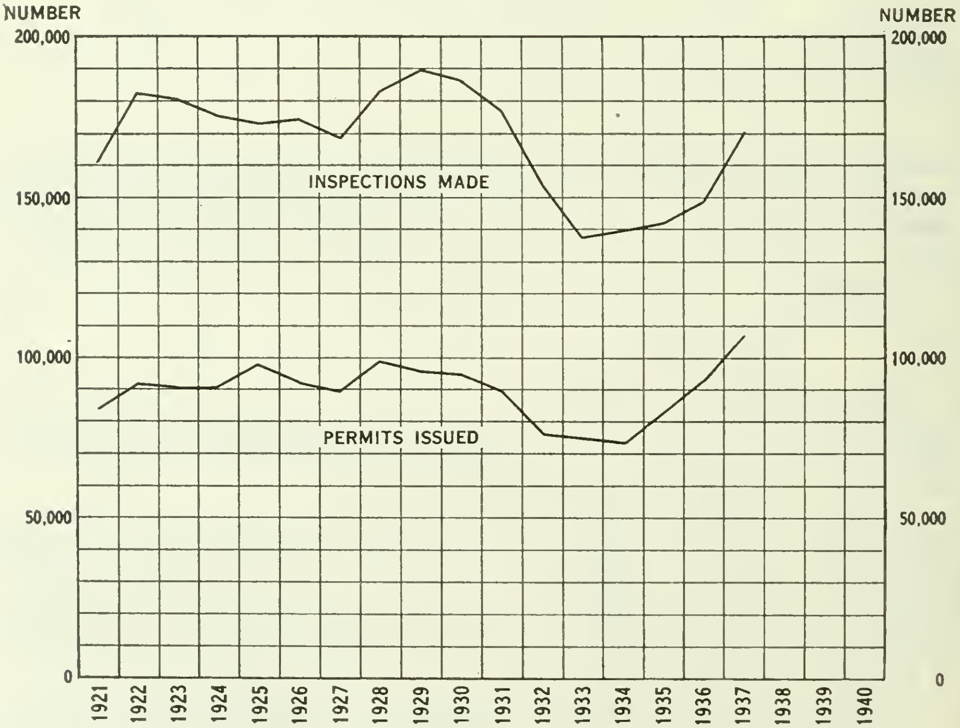
During the last three years, the work of the Production and Service department has grown appreciably. In 1937 the machine shop handled 1,225 orders and the carpenter shop 320 orders.

PHOTOGRAPHY AND BLUE PRINTING

The photographic studio completed 529 orders including a large amount of special work both within the studio and sent in from the field. The blue printing department handled 5,900 orders and turned out 66,700 prints.

Towards the end of the year a new photostat camera was installed. It provides a convenient and ready means of reproducing drawings, printed matter, etc. The instrument will reduce to 50 per cent, or enlarge to 200 per cent, of the original scale of the drawing, at one operation; greater or lesser reductions can of course be obtained by using the first print as copy for a second reproduction.

ELECTRICAL INSPECTION



ELECTRICAL INSPECTION DEPARTMENT

The increasing volume of electrical inspection necessitated re-opening the Belleville office on April 1, 1937, after having been closed since December 31, 1934. The district office at Bancroft was closed and the inspector transferred to Belleville.

Statistical

A total of 107,175 permits was issued, an increase of 15.4 per cent over 1936. This is a new record, the previous maximum having been 98,963, in 1928. There were 170,094 inspections, an increase of 14.5 per cent over 1936.

The accompanying graph shows the numbers of permits issued, and inspections made, each year since 1921.

Fires Attributed to Electricity

Every year a large number of fires are reported as having been due to defective electric wiring or equipment but, in many instances, the premises and equipment have been damaged to such an extent that it is not possible to ascertain the exact cause. Of the fires investigated, nineteen were found due to defective installation or faults in equipment. They are classified, as to origin, as follows:

	Number
Short-circuit in flexible cord	5
Short-circuit in service wires	3
Short-circuit in branch circuit	3
Short-circuit in motor feeder	1
Short-circuit in armoured cable	1
Short-circuit in flexible conduit	1
Short-circuit in service switch	1
Loose connection at meter	1
Loose connection at base receptacle	1
Hot plate in contact with combustible material	2

Electrocutions and Fatal Accidents

Five persons were electrocuted through coming into contact with electric wiring or equipment under the jurisdiction of this department, as compared with six persons in 1936. The individual causes are briefly cited below:

> Man electrocuted while attempting to remove a steel bar which, accidentally, had been dropped behind a switchboard-type ammeter. Circuit voltage, 550 volts.
>
> Woman electrocuted through touching a portable electric heater while in a bath tub. Circuit voltage, 120 volts.
>
> Man electrocuted while using an extension cord which was equipped with a brass socket. Circuit voltage, 120 volts.

Man electrocuted while painting a sign. Circuit voltage, 4,000 volts.

Man electrocuted while operating a sand thrower in a foundry. Circuit voltage, 550 volts.

Also, seven animals were electrocuted. Details, in brief, are as follows:

Two cows were electrocuted due to a breakdown in the insulation of a conductor at a motor starter. Circuit voltage, 120 volts.

A cow was electrocuted due to the breakdown of the insulation on a conductor at a lighting switch. Circuit voltage, 120 volts.

Two cows were electrocuted when the frame of a motor, on a milking machine, became alive. Circuit voltage, 120 volts.

A hog was electrocuted when it came into contact with a fallen yard wire. Circuit voltage, 120 volts.

A dog was electrocuted while walking along a railroad track under which an unauthorized extension of an electric circuit had been made. Circuit voltage, 550 volts.

Ground Tests

There was a total of 5,381 ground tests made in isolated communities and rural districts, an increase of 55 per cent over 1936.

Infractions of Regulations

Twenty-nine persons and companies were prosecuted for various infractions of the rules and regulations governing the sale and installation of electrical equipment and material.

The Canadian Electrical Code

Members of the Electrical Inspection and Laboratories staffs have been assisting in the revision of various sections of the Canadian Electrical Code, and a considerable amount of time was spent on this work. On Part I of the Code, thirteen meetings, and a three-day conference in Ottawa, were attended. There were also several conferences with the Department of Transport on radio interference. The minutes of some of these meetings were prepared and circulated. On Part II, there were twelve meetings of various panels, the total attendance of the Commission's engineers and inspectors being 39. Eleven specifications have been issued, bringing the total number of specifications to 43, with 17 more being prepared.

Inspection of Factory Electrical Test Floors

With a view to increasing safety in factory electrical test departments, a committee visited the plants of eight manufacturers of electrical power equipment, inspected their test floors and prepared a report on the arrangement of testing equipment and other conditions found. Many faults pointed out by this committee have already been corrected by the manufacturers, and suggestions as to changes in arrangement of apparatus, protective fences and safer methods of operation have been followed.

The committee has prepared a set of rules as an aid toward greater safety in testing.

SECTION VIII

ELECTRIC RAILWAYS

THE HAMILTON STREET RAILWAY COMPANY

A Subsidiary of The Hydro-Electric Power Commission of Ontario—Niagara System

Gross earnings on the Hamilton Street Railway for the year 1937 increased 10.74 per cent. Operating expenses (including taxes) decreased 5.19 per cent. The result was an increase in net earnings of $153,411. The improvement in earnings was due to an increase in fare and improved employment conditions in Hamilton.

The balance sheet and income account are given at the end of Section IX.

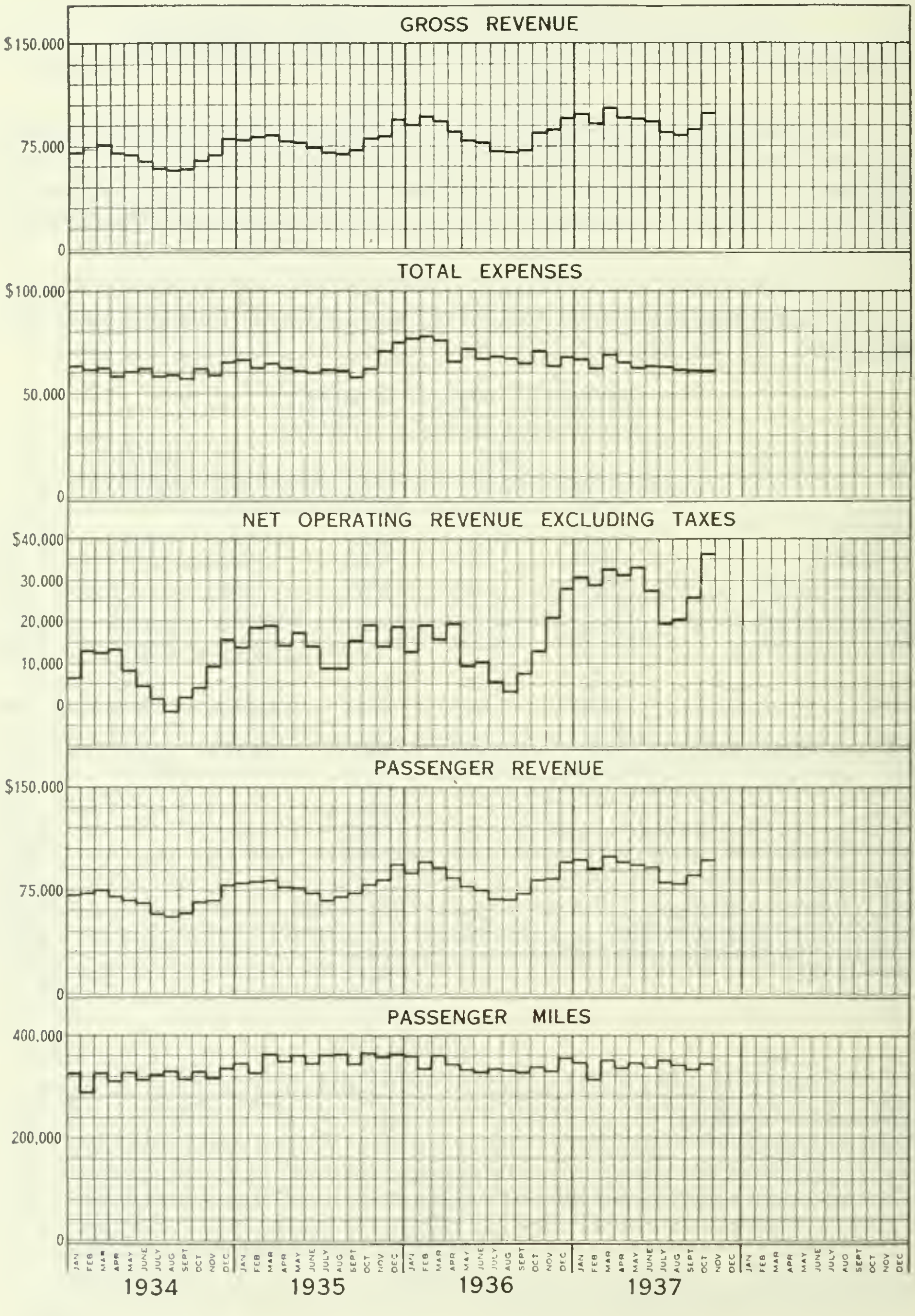
Operating results are summarized and compared in the following tabulation and chart.

HAMILTON STREET RAILWAY

Comparative Operating Statistics

		1936			1937	
	Tramways $	Buses $	Total $	Tramways $	Buses $	Total $
Operating revenues:						
Passenger	792,083	200,525	992,608	874,404	224,756	1,099,160
Freight	3,702		3,702	5,682		5,682
Other operations	6,065	575	6,640	5,140	709	5,849
Operating revenue	801,850	201,100	1,002,950	885,226	225,465	1,110,691
Operating expenses	686,639	167,222	853,861	604,139	169,393	773,532
Net operating revenue	115,211	33,878	149,089	281,087	56,072	337,159
Taxes	23,430	1,920	25,350	50,912	9,097	60,009
Net operating income	91,781	31,958	123,739	230,175	46,975	277,150
Interest on advances from Niagara system			6,257			850
Net income—before provision for depreciation			117,482			276,300
Depreciation			150,000			150,000
Net income			(32,518)			126,300
Appropriation for dividend			nil			122,969
Appropriation for ticket reserve			nil			3,331
Route-miles:			1936			1937
Tramway			28.06			28.06
Bus			17.58			17.58
Total			45.64			45.64
Track-miles			43.45			42.80
Passenger cars operated			73			72
Passenger buses operated			31			32
Car-miles operated:						
Passenger cars			2,863,803			2,769,270
Passenger buses			1,301,886			1,332,572
Car-hours operated:						
Passenger cars			305,358			297,903
Passenger buses			105,620			108,303
Passengers carried			22,640,144			21,277,756
Percentage of transfer passengers to revenue passengers			22.7%			24.3%

THE HAMILTON STREET RAILWAY COMPANY
OPERATING STATISTICS



GUELPH RADIAL RAILWAY

Operated by The Hydro-Electric Power Commission of Ontario for The City of Guelph

There was no major commitment on capital account during the year. Essential maintenance of way and structures, and equipment was performed.

After careful consideration and, with the approval of the City Council of Guelph, the operation of street cars was discontinued on September 30, 1937. Freight service to certain industries and the Ontario Agricultural College is still maintained over the old right of way. For passenger service modern gasolene buses are now employed.

The balance sheet and income account are given at the end of Section IX.

Operating results are summarized and compared in the following tabulation and chart.

GUELPH RADIAL RAILWAY
Comparative Operating Statistics

		1936			1937	
	Tramways $	Buses $	Total $	Tramways $	Buses $	Total $
Operating revenues:						
Passenger	34,796	15,641	50,437	32,011	19,642	51,653
Freight	8,644	....	8,644	10,719	....	10,719
Other operations	491	40	531	474	59	533
Operating revenue	43,931	15,681	59,612	43,204	19,701	62,905
Operating expenses	52,419	15,627	68,046	50,399	18,505	68,904
Net operating deficit	8,488	54*	8,434	7,195	1,196*	5,999
Taxes	246	....	246	246	....	246
Net operating loss	8,734	54*	8,680	7,441	1,196*	6,245
Interest and instalment payment			†23,787			†23,387
Sinking fund			3,769			3,921
Renewals—buses			6,031			6,031
Total deficit			42,267			39,584

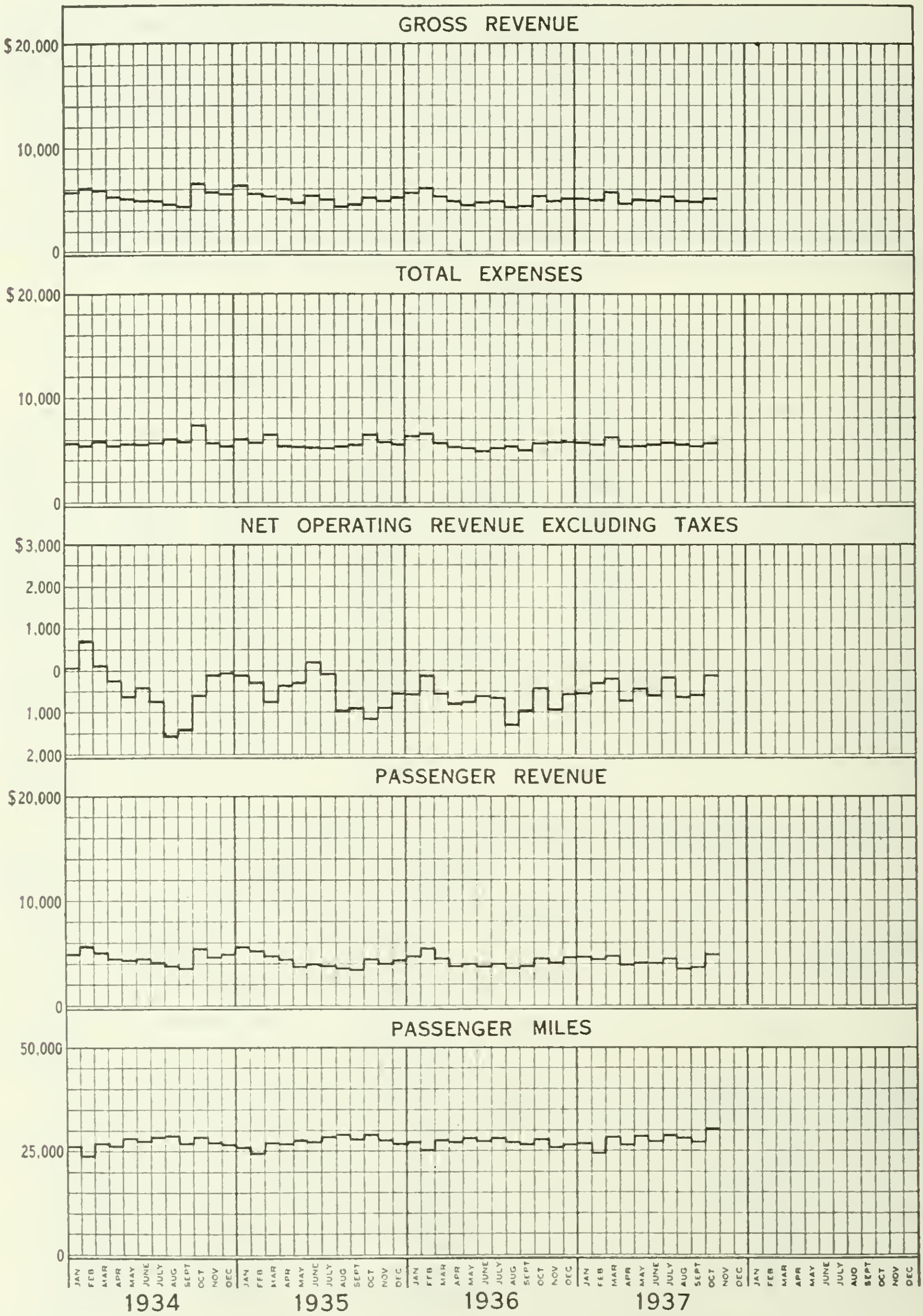
*Surplus.

†Includes $11,700 on purchase account, made up as follows:

	1936	1937
Amortization	$9,543	$9,978
Interest	2,157	1,722

	1936	1937
Route-miles:		
Tramway	6.41	6.41
Bus	5.99	5.99
Total	12.40	12.40
Track-miles	9.06	9.06
Passenger cars operated	7	7
Passenger buses operated	4	4
Car-miles operated:		
Passenger cars	223,302	198,770
Passenger buses	104,189	129,195
Freight locomotive	9,367	11,298
Car-hours operated:		
Passenger cars	27,139	25,065
Passenger buses	14,060	16,290
Freight locomotive	2,159	2,352
Passengers carried	1,089,551	1,159,572
Percentage of transfer passengers to revenue passengers	27.29%	26.71%

GUELPH RADIAL RAILWAY—OPERATING STATISTICS



SECTION IX

FINANCIAL STATEMENTS

Relating to

Properties Operated by The Hydro-Electric Power Commission in the Niagara, Georgian Bay, Eastern Ontario and Thunder Bay Systems on Behalf of Municipalities

and to

Northern Ontario Properties Held and Operated by the Commission in Trust for the Province of Ontario,

The Hamilton Street Railway Company—A Subsidiary of Niagara System, and

Guelph Radial Railway—Operated by the Commission on Behalf of the City of Guelph

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IN this section of the Report financial statements relating to the activities of The Hydro-Electric Power Commission, segregated into certain distinct divisions, are presented. The first division relates to those activities on behalf of the co-operative municipalities, which are partners in the main "Hydro" undertaking comprising the Niagara, Georgian Bay, Eastern Ontario and Thunder Bay systems and certain minor properties. The second relates to the administration of the Northern Ontario Properties which are held and operated by the Commission in trust for the Province of Ontario. The third and fourth relate to The Hamilton Street Railway Company, a subsidiary of the Niagara system, and to the Guelph Radial Railway operated by the Commission for the city of Guelph.

Co-operative Systems

In the Foreword to this Report a brief reference is made to the basic principle governing the operations of the "Hydro" undertaking in supplying electrical service at cost, and to the *wholesale* and *retail* aspects of the work. a description is also given of the several systems into which the partner municipalities are co-ordinated for securing common action with respect to power supplies, through the medium of The Hydro-Electric Power Commission which, under The Power Commission Act, functions as their Trustee.

Although for the purpose of financial administration the various systems are separate units, there is a similarity of procedure with respect to their operation which enables certain financial statements, as for example the various reserves, to be co-ordinated and presented in summary tables.

The first set of tables in Section IX gives collective results for the co-operative activities related to the four systems and minor associated properties. These tables include a **balance sheet; a summarization of cost distribution** as detailed in the "cost of power" tables referred to below; schedules respecting **fixed assets, capital expenditures and grants—rural power districts; power accounts receivable, funded debt issued or assumed, depreciation and obsolescence reserves, contingencies and stabilization of rates reserves, sinking fund reserves** and the **account with the Provincial Treasurer of the Province of Ontario.**

The tables which follow these general financial statements relate more particularly to the individual municipality's aspects of the wholesale activities of the Commission and for each system show the **cost of power** to the individual municipal utilities, the **credit or debit** adjustment that is made at the end of the fiscal year, and the **sinking fund** equity that has been acquired by the individual municipality. There is also included for each system a **rural operating** statement.

The charges for power supplied by the Commission to the various municipalities vary with the amounts of power used, the distances from the sources of supply and other factors. The entire capital cost of the various power developments and transmission systems is annually allocated to the connected municipalities and other wholesale power consumers, according to the relative use made of the lines and equipment. Each municipality assumes responsibility for that portion of property employed in providing and transmitting power for its use, together with such expenses—including the cost of purchased power if any—as are incidental to the provision and delivery of its wholesale power. The annual expenses and the appropriations for reserves are provided out of revenues collected in respect of such power, through the medium of power bills rendered by the Commission. The municipalities are billed at an estimated interim rate each month during the year and credit or debit adjustment is made at the end of the year,* when the Commission's books are closed and the actual cost payable by each municipality for power taken has been determined.

Included in the municipality's remittance to the Commission for the wholesale cost of power—besides such current expenses as those for operation and maintenance of plant, for administration, and for interest on capital—are sums required to build up reserves for sinking fund, for depreciation and obsolescence, for contingencies and for stabilization of rates. The first-mentioned reserve, namely, sinking fund, is being created on a 40-year basis for the purpose of liquidating capital liabilities. The other reserves are, respectively, being created to provide funds for the replacing or rebuilding of plant as it wears out, to enable the undertaking to replace existing equipment with improved equipment as it becomes available through advances in science and invention, and to meet unforeseen expenses which from time to time may arise.

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*The financial year for the Commission ends on October 31. The financial year for the municipal electric utilities, however, ends on December 31, and the municipal accounts are made up to this date, and so recorded in Section X.

The ultimate source of all revenue to meet costs—whether for the larger operations of The Hydro-Electric Power Commission or for the smaller local operations of the municipalities—is, of course, the consumer. Out of the total revenue collected by each municipal utility from its consumers for service supplied, only an amount sufficient to pay the wholesale cost of power supplied by the Commission as outlined above is remitted to the Commission; the balance of municipal electrical revenue is retained to pay for the expense incurred by the local utility in distributing the electrical energy to its consumers.

Tabular Data

The following comments relate to the tabular data presented:

Balance Sheet.—The first tabular statement given in Section IX is a balance sheet showing the assets, and the liabilities, reserves and equities of the several co-operative systems.

Summarization of Cost Distributions.—This statement is a summary of the "cost of power" tables relating to the individual systems as referred to more particularly below.

Fixed Assets.—Details are given concerning the various fixed assets of each system and of the miscellaneous properties, whilst similar details are shown of the capital expenditures for the year ended October 31, 1937.

Capital Expenditures and Grants—Rural Power Districts.—This schedule gives summary information respecting the total capital expenditures on rural power districts and grants-in-aid of construction paid or payable by the Province with respect to such rural districts.

Power Accounts Receivable.—This schedule sets forth the amounts collectible from all classes of power consumers and includes the annual adjustment figures from the "credit or charge" statements for municipalities. The main details of those debit balances three months or more overdue are stated.

Funded Debt Issued or Assumed.—This schedule presents a complete list of the securities issued or assumed by the Commission on account of the several systems, the Northern Ontario Properties and the Guelph Radial Railway. It should be noted that where securities have been issued to finance properties operated for others, this liability is only shown in memorandum form on the balance sheet of the Commission, whilst the direct liability is shown on the balance sheets of the Northern Ontario Properties and the Guelph Radial Railway.

Depreciation and Obsolescence Reserves
Contingencies Reserves and
Stabilization of Rates Reserves.—These schedules show the provisions made to, the expenditures from, and the balance to the credit of, these reserves for each of the systems and other properties included in the power undertakings operated on a cost basis.

Sinking Fund Reserves.—This schedule summarizes the appropriation of principal and interest with respect to these reserves for each of the systems and certain minor properties.

Account with the Provincial Treasurer.—This schedule lists, both for the Niagara and other systems operated on a cost basis, and for the Northern Ontario Properties which are held and operated by the Commission in trust for the Province, the advances from the Province of Ontario and the repayments which have been applied to reduce this liability. It should be noted that Provincial advances to finance Northern Ontario Properties are shown in memorandum form only on the balance sheet of the Commission as the direct liability is carried on the Northern Ontario Properties' balance sheet.

Following these statements, which are common to all systems, there are given for each of the individual co-operative systems four tabular statements as follows:

Cost of Power statement, which shows the apportionment to each municipality or rural power district of the items of cost summarized in the operating account, as well as the apportionment of the fixed assets in service listed in the balance sheet and the amount of power taken by each municipality. It should be noted that the cost of power given in this table is the wholesale cost—that is, the cost which the Commission receives for the power delivered from the main transformer stations serving the local utility or rural power district. In the case of rural power districts, the costs of power for the respective districts appear also in the "rural operating" statement, immediately following, as "cost of power delivered"; in the case of municipal electrical utilities not directly administered by the Commission, the respective costs of power appear in Statement "B" of Section X as "power purchased".

Rural Operating statement, which shows for each rural power district the various items of cost, and the revenues received, in connection with the distribution of electrical energy to consumers.

Credit or Charge statement, which shows the adjustments made in order to bring the amounts paid by each municipal electric utility and rural power district to the actual cost of service to each municipality or district. The credits and charges for the municipal electric utilities are taken up and given effect to in the accounts of "Hydro" utilities before their operating records of each year are closed.

The credits and charges for rural power districts are carried on the balance sheet of the Commission as "rates suspense" items.

Sinking Fund statement, which gives the accumulated total of the amounts paid by each municipality and rural power district as part of the cost of power together with its proportionate share of other sinking funds.

Northern Ontario Properties

The statements and schedules respecting these properties which are held and operated by the Commission in trust for the Province of Ontario include the balance sheet, operating and income accounts, schedules of fixed assets, depreciation and obsolescence reserves, contingencies reserves, and sinking fund reserves. These schedules are similar in form to the corresponding schedules relating to the co-operative systems.

The Hamilton Street Railway Company

This is a subsidiary of the Niagara system of the Commission. A balance sheet and operating and income account are presented.

Guelph Radial Railway

This railway is operated by the Commission on behalf of the city of Guelph. A balance sheet and operating and income account are presented.

Municipal Utilities

All municipal "Hydro" utilities have current expenses to meet similar to the expenses of the Commission and have adopted the same financial procedure with respect to their operations. In other words, concurrently with the creation of funds to liquidate their debt to the Commission and to provide the necessary reserves to protect generating, transforming and transmission systems, the municipalities are taking similar action with respect to their local "Hydro" utility systems.

The balance sheets, operating reports and statistical data appearing in Section X, under the heading of "Municipal Accounts", relate to the operation of local distribution systems by individual municipalities which have contracted with the Commission for their supply of electrical energy. To this section there is an explanatory introduction to which the reader is specially referred.

Auditing of Accounts

The accounts of The Hydro-Electric Power Commission of Ontario are verified by auditors specially appointed by the Provincial Government. The accounts of the "Hydro" utility of each individual municipality are prepared according to approved and standard practice and The Public Utilities Act requires that they shall be audited by the auditors of the municipal corporation.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

FINANCIAL ACCOUNTS

For the Year Ended October 31, 1937

Relating to Properties operated on a "Cost Basis" for the Co-operating Municipalities and Rural Power Districts which are supplied with Electrical Power and Services from the following Properties:

Niagara System
Georgian Bay System
Eastern Ontario System
Thunder Bay System
Manitoulin Rural Power District
Nipissing Rural Power Districts
Bonnechere Water Storage Works
Service and Administrative Buildings and Equipment

STATEMENTS

Balance Sheet as at October 31, 1937

Summarization of Cost Distributions for the Year ended October 31, 1937

Schedules supporting the Balance Sheet as at October 31, 1937:—

- Fixed Assets—By Systems and Properties
- Capital Expenditures and Grants—Rural Power Districts
- Power Accounts Receivable
- Funded Debt Issued or Assumed
- Depreciation and Obsolescence Reserves
- Contingencies Reserves
- Stabilization of Rates Reserves
- Sinking Fund Reserves
- Account with the Provincial Treasurer of the Province of Ontario

Detailed Statements for Municipalities and Rural Power Districts

THE HYDRO-ELECTRIC POWER

BALANCE SHEET AS AT OCTOBER 31, 1937

Niagara System Eastern Ontario System
Georgian Bay System Thunder Bay System

ASSETS

INVESTMENTS:			
Fixed Assets:			
Niagara system	$217,008,414.96		
Georgian Bay system	10,841,493.58		
Eastern Ontario system	23,658,332.72		
Thunder Bay system	19,548,207.90		
Non-system properties	201,032.39		
Service and administrative buildings and equipment	3,107,802.30		
	$274,365,283.85		
Less—Grants-in-aid of construction:			
Province of Ontario—for rural power districts	11,951,891.63	$262,413,392.22	
Preliminary Expenditures—Inter-System:			
St. Lawrence River surveys—1925 to 1928	$ 734,873.31		
Ottawa River surveys and undeveloped power sites	346,621.53		
Ogoki River surveys	100,807.83	1,182,302.67	
Miscellaneous Investments:			
Toronto-Pt. Credit-St. Catharines Radial Rlys.—Secured	$ 2,005,436.40		
The Hamilton Street Rly. Co.—Capital stock and advances	2,913,932.69		
Investment securities	2,385,351.00		
Sale agreements and mortgages	1,138,177.49	8,442,897.58	
			$272,038,592.47
CURRENT AND ACCRUED ASSETS:			
Cash in banks		$ 1,796,025.34	
Special deposits for matured interest and debentures unpaid		69,839.06	
Sundry accounts receivable		586,099.91	
Power accounts receivable		3,227,856.97	
Rural power district grants receivable		221,529.53	
Interest receivable		661,424.91	
Northern Ontario Properties		967,419.55	
Rural district loans		87,507.18	
Consumers' and contractors' deposits:			
Special deposits	$ 178,288.89		
Securities—at par value	540,300.00	718,588.89	
		$ 8,336,291.34	
*Amount due from special funds—net		309,111.10	8,645,402.44
DEFERRED DEBITS:			
Rural power districts—rates suspense		$ 433,628.38	
Maintenance materials and supplies		638,952.97	
Construction materials and supplies		1,102,464.64	
Construction and maintenance tools and equipment		735,885.39	
Office furniture and equipment		65,711.30	
Prepayments		123,643.71	
Work in progress—water heater campaign		218,706.29	
Work in progress—deferred work orders		12,838.88	
Unamortized debenture discount		157,035.87	
Miscellaneous deferred debits		16,256.67	3,505,124.10
SPECIAL FUNDS:			
Reserve Funds:			
Investments	$ 42,666,487.73		
*Amount due to current assets	464,310.59	$ 42,202,177.14	
Employers' Liability Insurance Fund:			
Investments	$ 877,758.62		
Deposits with the Workmen's Compensation Board	38,759.37		
*Amount receivable from current assets	62,851.00	979,368.99	
Pension Fund:			
Investments	$ 5,069,477.50		
*Amount receivable from current assets	20,434.37	5,089,911.87	
Sinking Funds:			
Investments	$ 6,690,684.52		
Deposits in the hands of trustees—including temporary investments	416,595.92		
*Amount receivable from current assets	71,914.12	7,179,194.56	55,450,652.56
			$339,639,771.57

COMMISSION OF ONTARIO

IN WHICH THE FOLLOWING PROPERTIES ARE INCLUDED:

Local Distribution Systems — **Bonnechere River Storage**
Rural Power Districts — **Service and Administrative Buildings and Equipment**

LIABILITIES, RESERVES AND EQUITIES

LONG-TERM LIABILITIES:			
Funded Debt Issued or Assumed		$111,687,612.62	
Less—Debentures issued to finance properties operated for others:			
Northern Ontario Properties	$ 24,000,000.00		
Guelph Radial Railway	300,000.00		
		$ 24,300,000.00	
		$ 87,387,612.62	
Advances from the Province of Ontario	$150,491,796.86		
Less—Advances for Northern Ontario Properties	6,531,407.42		
		143,960,389.44	
Purchase Agreements:			
Thunder Bay System transmission lines		202,489.86	
			$231,550,491.92
CURRENT AND ACCRUED LIABILITIES:			
Bank of Montreal—demand loan—secured		$ 500,000.00	
Accounts and payrolls payable	$ 1,946,936.13		
Less—Amount for Northern Ontario Properties	111,084.77		
		1,835,851.36	
Matured debenture interest unpaid		69,294.56	
Matured debentures unpaid		6,055.00	
Debenture interest accrued		980,124.24	
Interest accrued on Provincial advances	$ 2,311,609.50		
Less—Amount for Northern Ontario Properties	122,451.47		
		2,189,158.03	
Miscellaneous accrued interest		6,564.93	
Miscellaneous accrued liabilities		63,987.40	
Power accounts receivable—credit balances		29,190.80	
Advances from the Province of Ontario for rural loans		91,224.52	
Liability for consumers' and contractors' deposits		746,114.21	
			6,517,565.05
DEFERRED CREDITS:			
Rural power districts—rates suspense		$ 1,482,106.92	
Unamortized premium on debentures		203,786.26	
Miscellaneous deferred credits		140,010.49	
			1,825,903.67
RESERVES:			
Depreciation and obsolescence reserves:			
Additions to property through depreciation and obsolescence reserves	$ 7,999,551.59		
Depreciation and obsolescence reserve funds	29,191,957.04		
		$ 37,191,508.63	
Contingency reserves	$ 8,113,778.50		
Stabilization of rates reserves	4,823,014.18		
Fire insurance reserve	73,427.42		
		13,010,220..10	
Employers' liability insurance reserve		979,368.99	
Pension fund reserve		5,089,911.87	
Miscellaneous reserves		137,981.99	
			56,408,991.58
EQUITIES OF MUNICIPALITIES AND RURAL POWER DISTRICTS:			
Municipalities' and Rural Power Districts' equities being the accumulated contributions of consumers including interest accretions for annual sinking fund appropriations, represented by:			
Funded debt retired through sinking funds		$ 10,512,776.13	
Provincial advances retired through sinking funds		25,644,848.66	
Sinking funds		7,179,194.56	
			43,336,819.35
			$339,639,771.57

Auditors' Certificate

We have examined the Accounts of The Hydro-Electric Power Commission of the Province of Ontario for the year ended the 31st October, 1937, and report that, in conjunction with our Annual Report to the Lieutenant-Governor in Council, in our opinion the above Balance Sheet is properly drawn up so as to exhibit a true and correct view of the state of the Commission's affairs at the 31st October, 1937, according to the best of our information and the explanations given to us and as shown by the books and records of the Commission. We have obtained all the information and explanations we have required.

OSCAR HUDSON AND CO.,
Chartered Accountants,
Auditors.

Dated at Toronto, Ontario,
9th April, 1938

THE HYDRO-ELECTRIC POWER

Summarization of Cost of Power for Each System

	Cost of power purchased	Operating, maintenance and administrative expenses	Interest	Provision for depreciation and obsolescence	Provision for contingencies
	$ c.	$ c.	$ c.	$ c.	$ c.
Niagara System:					
Municipalities..........	2,643,901.96	2,631,865.14	6,489,836.77	991,192.28	429,304.53
Rural power districts....	131,438.22	203,433.84	381,938.77	71,114.21	27,024.28
Companies.............	1,041,794.06	1,033,142.10	2,215,020.62	307,188.65	142,045.03
Local distribution systems	19,248.18	85,803.16	64,739.42	11,994.35	5,487.25
Total...............	3,836,382.42	3,954,244.24	9,151,535.58	1,381,489.49	603,861.09
Georgian Bay System:					
Municipalities..........	43,414.80	264,805.59	272,983.96	78,204.29	21,934.70
Rural power districts....	9,713.81	42,795.98	47,095.30	14,113.05	3,879.65
Companies.............	2,069.83	10,175.87	12,558.07	3,685.72	1,022.70
Local distribution systems	970.15	12,839.74	10,065.52	3,580.34	1,355.69
Total...............	56,168.59	330,617.18	342,702.85	99,583.40	28,192.74
Eastern Ontario System:					
Municipalities..........	614,804.70	421,740.29	483,548.28	114,054.46	36,816.11
Rural power districts....	48,704.35	53,096.53	62,480.78	16,493.86	4,902.99
Companies.............	172,779.37	173,515.44	216,634.97	51,498.65	16,034.32
Local electric distribution systems..........	12,549.84	42,539.04	24,980.99	8,131.39	1,303.62
Local gas distribution sys.	....	15,216.86	1,199.62	....	....
Pulp mill.............	11,607.67	12,219.04	14,723.34	2,168.00	881.63
Total...............	860,445.93	718,327.20	803,567.98	192,346.36	59,938.67
Thunder Bay System:					
Municipalities..........	....	172,962.09	543,455.42	103,521.53	55,105.49
Rural power districts....	....	1,276.10	2,515.58	515.43	256.97
Companies.............	....	123,257.22	332,747.50	53,866.61	30,344.02
Local distribution systems	....	2,719.93	880.94	....	....
Total...............	....	300,215.34	879,599.44	157,903.57	85,706.48
Cost of Distribution of power within Rural Power Districts:					
Niagara system R.P.D...	990,160.17	536,948.26	355,135.86	153,281.88	....
Georgian Bay R.P.D.....	140,905.58	77,278.76	51,414.09	21,731.45	....
Eastern Ontario system R.P.D..............	226,209.79	151,104.37	95,576.31	40,866.43	....
Thunder Bay system R.P.D..............	5,302.60	3,647.06	3,003.14	1,317.35	....
Manitoulin R.P.D.......	3,750.00	1,364.82	1,605.15	657.90	....
Nipissing R.P.D........	6,114.83	2,703.50	1,894.04	639.40	....
Total..............	1,372,442.97	773,046.77	508,628.59	218,494.41	....
Rural Lines operated by Municipalities:					
Niagara rural lines......	....	....	845.80	401.17	200.59
Georgian Bay rural lines.	....	....	156.39	57.00	28.50
Total...............	....	....	1,002.19	458.17	229.09

COMMISSION OF ONTARIO

for the Year Ended October 31, 1937

Provision for stabilization of rates	Provision for sinking fund	Operating balances in respect of power sold to private companies	Total cost	Amount received from (or billed against) municipalities and other customers	Amounts remaining to be credited or charged to municipalities	
					Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
2,226,003.01	1,428,365.95	(403,103.31)	16,437,366.33	16,611,805.95	314,095.71	139,656.09
110,707.34	84,648.51	(20,145.00)	990,160.17	990,160.17	....	....
....	509,134.48	417,428.67	5,665,753.61	5,665,753.61	....	....
689.65	12,445.88	5,819.64	206,227.53	206,227.53	....	....
2,337,400.00	2,034,594.82	....	23,299,507.64	23,473,947.26	314,095.71	139,656.09
68,293.20	63,715.58	6,432.66	819,784.78	854,341.18	36,036.45	1,480.05
11,255.40	10,992.20	1,060.19	140,905.58	140,905.58	....	....
....	2,931.10	(8,016.72)	24,426.57	24,426.57	....	....
....	2,349.33	523.87	31,684.64	31,684.64	....	....
79,548.60	79,988.21	....	1,016,801.57	1,051,357.97	36,036.45	1,480.05
215,509.00	101,965.98	20,513.07	2,008,951.89	2,129,551.49	120,717.97	118.37
24,990.00	13,162.60	2,378.68	226,209.79	226,209.79	....	....
....	52,553.94	(32,307.55)	650,709.14	650,709.14	....	....
....	2,289.39	16,449.86	108,244.13	108,244.13	....	....
....	....	(2,546.46)	.13,870.02	13 870.02	....	....
....	2,555.50	(4,487.60)	39,667.58	39,667.58	....	....
240,499.00	172,527.41	....	3,047,652.55	3,168,252.15	120,717.97	118.37
122,914.75	124,205.53	(83,351.93)	1,038,812.88	1,044,675.71	7,165.43	1,302.60
508.25	574.93	(344.66)	5,302.60	5,302.60	....	....
....	126,822.99	71,521.24	738,559.58	738,559.58	....	....
....	1,592.55	12,175.35	17,368.77	17,368.77	....	....
123,423.00	253,196.00	....	1,800,043.83	1,805,906.66	7,165.43	1,302.60
....	81,690.32	....	2,117,216.49	2,217,831.30	100,614.81	....
....	12,000.26	....	303,330.14	293,423.36	....	9,906.78
....	21,925.82	....	535,682.72	538,033.91	2,351.19	....
....	693.59	....	13,963.74	14,681.81	718.07	....
....	377.24	....	7,755.11	9,207.62	1,452.51	....
....	336.64	....	11,688.41	13,823.19	2,134.78	....
....	117,023.87	....	2,989,636.61	3,087,001.19	107,271.36	9,906.78
....	361.05	....	1,808.61	1,808.61	....	....
....	51.31	....	293.20	293.20	....	....
....	412.36	....	2,101.81	2,101.81	....	....

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
Fixed Assets—October 31, 1937
NIAGARA SYSTEM

	Net capital expenditures in the year	Fixed Assets			Total
		Under construction	In service		
			Non-depreciable including lands, water rights and intangible	Depreciable	
	$ c.	$ c.	$ c.	$ c.	$ c.
Power Plants:					
Niagara river:					
Queenston-Chippawa.	*8,688.86*	1,410.42	47,963,779.81	28,860,785.23	76,825,975.46
Ontario Power.......	14,508.20	4,963.89	7,281,151.42	14,803,443.92	22,089,559.23
Toronto Power......	*270.00*	....	3,823,511.60	7,697,675.93	11,521,187.53
Ottawa river:					
Chats Falls.........	*3,342.33*	2,764.50	807,130.90	6,284,104.01	7,093,999.41
Welland canal:					
DeCew Falls........	9,990.03	10,427.72	8,343,740.18	3,347,565.58	11,701,733.48
Hamilton Steam plant.	84.47	84.47	501,721.42	....	501,805.89
Kenogami river:					
Long Lac diversion...	339,158.09	339,158.09	....	....	339,158.09
	351,439.60	358,809.09	68,721,035.33	60,993,574.67	130,073,419.09
Transformer Stations:					
Southern Ontario.....	3,604.88	178,172.71	....	26,453,749.12	26,631,921.83
Eastern—Chats Falls..	6,336.62	41,420.56	....	8,877,130.40	8,918,550.96
	9,941.50	219,593.27	....	35,330,879.52	35,550,472.79
Transmission Lines:					
Southern Ontario:					
Right-of-way........	1,199.87	....	6,969,687.29	....	6,969,687.29
Lines...............	*107,856.41*	63,253.73	....	18,264,550.46	18,327,804.19
Eastern—Chats Falls:					
Right-of-way........	2,918.42	....	1,641,679.99	....	1,641,679.99
Lines...............	*7.56*	....	....	7,501,382.03	7,501,382.03
	103,745.68	63,253.73	8,611,367.28	25,765,932.49	34,440,553.50
Local Systems:					
Niagara peninsula and Dundas area........	*14,449.46*	23,839.67	....	208,417.28	232,256.95
Lincoln Electric:					
St. Catharines system .	....	....	....	187,467.86	187,467.86
	14,449.46	23,839.67	....	395,885.14	419,724.81
Sub-total.........	243,185.96	665,495.76	77,332,402.61	122,486,271.82	200,484,170.19
Rural Power Districts..					
H-E.P.C. investment..	938,862.82	55,695.17	....	8,239,301.34	8,294,996.51
Government grants ...	936,732.34	54,511.84	....	8,154,678.00	8,209,189.84
	1,875,595.16	110,207.01	....	16,393,979.34	16,504,186.35
Rural Lines:					
Welland and Milton...	....	....	....	20,058.42	20,058.42
	2,118,781.12	775,702.77	77,332,402.61	138,900,309.58	217,008,414.96

	Cost statements	Transfers for cost purposes	Fixed assets (as above)
	$ c.	$ c.	$ c.
Cost of Power schedules....................	200,428,753.28	55,416.91	200,484,170.19
Rural Operating schedules..................	8,350,413.42	*55,416.91*	8,294,996.51
Rural Lines schedule.......................	20,058.42	....	20,058.42

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
Fixed Assets—October 31, 1937
GEORGIAN BAY SYSTEM

		Fixed Assets			
			In service		
	Net capital expenditures for the year	Under construction	Non-depreciable incl. lands, water rights and intangible	Depreciable	Total
	$ c.	$ c.	$ c.	$ c.	$ c.
Power Plants:					
Musquash river:					
Bala No. 1 and No. 2 plants	*40.00*		70,468.43	50,610.70	121,079.13
Ragged Rapids	411,616.62	411,616.62			411,616.62
Lands and water rights (Ragged Rapids, Big Eddy, Sandy Grey and Go Home Developments)			48,023.87		48,023.87
Severn river:					
Wasdells	239.15		15,202.32	132,655.48	147,857.80
Big Chute	*274.87*	68.40	122,540.48	548,547.90	671,156.78
Preliminary surveys			4,107.56		4,107.56
Beaver river:					
Eugenia	18,858.54	763.07	148,980.43	1,086,695.74	1,236,439.24
Saugeen river:					
Hanover and Maple Hill	*200.00*		16,000.00	29,682.55	45,682.55
Walkerton	*295.00*		97,721.83	115,584.03	213,305.86
Southampton	*5,341.18*		69,739.07	69,106.12	138,845.19
Muskoka river:					
South Falls	.78		17,365.93	438,486.75	455,852.68
Trethewey Falls	74.32		51,549.45	305,516.82	357,066.27
Hanna Chute	*1,600.00*		34,520.82	207,624.55	242,145.37
Hollow Lake dam			16,555.34	29,540.16	46,095.50
Preliminary surveys			14,912.93		14,912.93
Sauble river:					
Lands and rights			20,959.59		20,959.59
Gull river:					
Lands and rights			5,859.20		5,859.20
	423,038.36	412,448.09	754,507.25	3,014,050.80	4,181,006.14
Transformer Stations	85,210.85	52,874.40		1,207,180.48	1,260,054.88
Transmission Lines	96,359.71	8,833.32		2,651,314.65	2,660,147.97
Local Systems	1,766.75			87,298.07	87,298.07
Sub-total	606,375.67	474,155.81	754,507.25	6,959,844.00	8,188,507.06
Rural Power Districts					
H-E.P.C. investment	347,801.52	56,359.41		1,322,291.57	1,378,650.98
Government grants	328,857.84	56,171.32		1,215,314.05	1,271,485.37
	676,659.36	112,530.73		2,537,605.62	2,650,136.35
Rural Lines:					
Brechin and Flesherton	42.74			2,850.17	2,850.17
	1283,077.77	586,686.54	754,507.25	9,500,299.79	10,841,493.58

	Cost statements	Transfers for cost purposes	Fixed assets (as above)
	$ c.	$ c.	$ c.
Cost of Power schedules	8,176,107.22	12,399.84	8,188,507.06
Rural Operating schedules	1,391,050.82	*12,399.84*	1,378,650.98
Rural Lines schedule	2,850.17		2,850.17

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
Fixed Assets—October 31, 1937
EASTERN ONTARIO SYSTEM

	Net capital expenditures in the year	Fixed Assets			Total
		Under construction	In service		
			Non-depreciable incl. lands, water rights and intangible	Depreciable	
	$ c.	$ c.	$ c.	$ c.	$ c.
Power Plants:					
Fenelon river:					
Fenelon Falls	*325.00*	....	60,000.00	84,404.33	144,404.33
Otonabee river:					
Auburn	1,119.55	....	31,400.00	288,330.33	319,730.33
Douro	68,478.30	....	....	68,478.30	68,478.30
Lakefield	235,111.73	....	19,050.77	216,060.96	235,111.73
Young's Point	9,182.89	....	2,180.81	7,002.08	9,182.89
Trent river:					
Heely Falls	*663.65*	....	....	1,186,180.78	1,186,180.78
Seymour	*328.20*	....	....	300,528.81	300,528.81
Ranney Falls	706.09	706.09	....	1,339,262.83	1,339,968.92
Ranney Falls No. 3	61,309.17	660.96	18,978.79	41,669.42	61,309.17
Hagues Reach	*2,884.48*	....	....	573,487.30	573,487.30
Meyersburg	*102.08*	....	....	836,958.33	836,958.33
Sills Island	257,704.45	676.68	38,654.36	218,373.41	257,704.45
Frankford	29.28	38.61	....	252,028.80	252,067.41
Sydney	1.39	4.76	....	252,100.29	252,105.05
Deer river:					
Cordova Power Site	....	....	2,234.69	....	2,234.69
Gull river:					
Norland and Elliot Chute Site	....	....	17,577.60	....	17,577.60
Mississippi river:					
High Falls	....	....	13,113.84	685,482.88	698,596.72
Carleton Place	....	....	7,929.06	49,847.10	57,776.16
Galetta	*951.53*	....	20,000.00	127,968.56	147,968.56
Ragged Chutes, Playfair and Appleton Sites	....	....	52,272.85	....	52,272.85
Rosebank and Blakeney Sites	....	....	23,321.18	....	23,321.18
Surveys	....	....	10,594.39	....	10,594.39
Madawaska river:					
Calabogie	5,669.91	5,669.91	79,991.00	660,272.02	745,932.93
Storage Dams	38.78	....	2,555.00	16,075.18	18,630.18
Undeveloped Sites	*200,000.00*	....	650,000.00	....	650,000.00
Miscellaneous equipment	....	....	....	46,504.47	46,504.47
Inactive plant	....	7.00	....	....	7.00
Intangible	*56,711.02*	....	2,217,761.29	....	2,217,761.29
	377,385.58	7,764.01	3,267,615.63	7,251,016.18	10,526,395.82
Transformer Stations	268,352.19	38,183.56	....	2,948,843.02	2,987,026.58
Transmission Lines	747,178.96	60,050.66	297,943.93	4,801,238.37	5,159,232.96
Local and Rural Systems	1,014.18	....	....	208,117.86	208,117.86
Campbellford Pulp Mill	....	....	....	52,559.93	52,559.93
Cobourg Gas Works	....	....	....	26,413.01	26,413.01
Sub-total	1,393,930.91	105,998.23	3,565,559.56	15,288,188.37	18,959,746.16
Rural Power Districts					
H-E.P.C. investment	437,490.08	42,631.78	....	2,326,894.81	2,369,526.59
Government grants	434,094.50	42,336.06	....	2,286,723.91	2,329,059.97
	871,584.58	84,967.84	....	4,613,618.72	4,698,586.56
	2,265,515.49	190,966.07	3,565,559.56	19,901,807.09	23,658,332.72

	Cost statement	Transfers for cost purposes	Miscellaneous investment	Fixed assets (as above)
	$ c.	$ c.	$ c.	$ c.
Cost of Power schedules	18,932,821.48	33,299.68	*6,375.00*	18,959,746.16
Rural Operating schedules	2,402,826.27	*33,299.68*	....	2,369,526.59

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Fixed Assets—October 31, 1937

THUNDER BAY SYSTEM

	Net capital expenditures in the year	Fixed Assets			Total
		Under construction	In service		
			Non-depreciable incl. lands, water rights and intangible	Depreciable	
Power Plants:	$ c.	$ c.	$ c.	$ c,	$ c.
Nipigon river:					
Cameron Falls	10,266.31	13,706.78	236,600.51	8,779,574.15	9,029,881.44
Alexander	*3,678.74*	235.16	76,898.44	5,372,115.91	5,449,249.51
Virgin Falls dam			55,450.41	426,736.74	482,187.15
Deficit 1921-1923			620,818.33		620,818.33
	6,587.57	13,941.94	989,767.69	14,578,426.80	15,582,136.43
Transformer Stations	112,680.31	83,225.51		1,058,993.36	1,142,218.87
Transmission Lines	588,083.59	8,239.04	314,574.85	2,317,333.74	2,640,147.63
Local Systems	42,077.51			42,077.51	42,077.51
Sub-total	749,428.98	105,406.49	1,304,342.54	17,996,831.41	19,406,580.44
Rural Power Districts					
H-E.P.C. investments	8,421.79	2,887.44		67,926.29	70,813.73
Government grants	8,421.79	2,887.44		67,926.29	70,813.73
	16,843.58	5,774.88		135,852.58	141,627.46
	766,272.56	111,181.37	1,304,342.54	18,132,683.99	19,548,207.90

	Cost statements	Preliminary expenditures	Fixed assets (as above)
	$ c.	$ c.	$ c.
Cost of Power schedules	19,507,388.27	*100,807.83*	19,406,580.44
Rural Operating schedules	70,813.73		70,813.73

NON-SYSTEM PROPERTIES

	Net capital expenditures in the year	Fixed Assets			Total
		Under construction	In service		
			Non-depreciable including water rights and intangible	Depreciable	
Bonnechere River Storage:	$ c.	$ c.	$ c.	$ c.	$ c.
Round Lake dam				23,185.58	23,185.58
Deficit 1917-1931			28,556.30		28,556.30
			28,556.30	23,185.58	51,741.88
Nipissing Rural Power District:					
H-E.P.C. investment	4,649.92			35,189.12	35,189.12
Government grants	4,649.91			34,445.37	34,445.37
Manitoulin Rural Power Dist.	9,299.83			69,634.49	69,634.49
Transformer station				5,098.11	5,098.11
Transmission lines					
H-E.P.C. investment	7,036.48	569.48		37,091.08	37,660.56
	7,036.48	569.48		42,189.19	42,758.67
Government grants	7,036.47	569.47		36,327.88	36,897.35
	14,072.95	1,138.95		78,517.07	79,656.02
	23,372.78	1,138.95	28,556.30	171,337.14	201,032.39

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Fixed Assets—October 31, 1937

SERVICE AND ADMINISTRATIVE BUILDINGS AND EQUIPMENT

	Net capital expenditures in the year	Fixed Assets			Total
		Under construction	In service		
			Non-depreciable including lands	Depreciable	
	$ c.	$ c.	$ c.	$ c.	$ c.
Administrative Buildings Toronto:					
University Avenue........	*20.87*	....	195,837.00	1,459,590.55	1,655,427.55
Elm and Centre Streets....	....	....	....	160,821.95	160,821.95
	20.87	....	195,837.00	1,620,412.50	1,816,249.50
Service Buildings and Equipment:					
Toronto................	3,218.94	....	....	519,473.72	519,473.72
Cobourg................	450.00	....	....	22,079.08	22,079.08
Hamilton...............	....	....	441,439.88	308,560.12	750,000.00
	3,668.94	....	441,439.88	850,112.92	1,291,552.80
	3,648.07	....	637,276.88	2,470,525.42	3,107,802.30

SUMMARY

	Net capital expenditures for the year	Fixed Assets			Total
		Under construction	In service		
			Non-depreciable including lands, water rights and intangible	Depreciable	
	$ c.	$ c.	$ c.	$ c.	$ c.
Niagara system.........	2,118,781.12	775,702.77	77,332,402.61	138,900,309.58	217,008,414.96
Georgian Bay system ...	1,283,077.77	586,686.54	754,507.25	9,500,299.79	10,841,493.58
Eastern Ontario system .	2,265,515.49	190,966.07	3,565,559.56	19,901,807.09	23,658,332.72
Thunder Bay system....	766,272.56	111,181.37	1,304,342.54	18,132,683.99	19,548,207.90
Non-system properties...	23,372.78	1,138.95	28,556.30	171,337.14	201,032.39
Service and administrative buildings and equipment..........	3,648.07	....	637,276.88	2,470,525.42	3,107,802.30
	6,460,667.79	1,665,675.70	83,622,645.14	189,076,963.01	274,365,283.85
Less: Grants-in-aid of construction: Province of Ontario—for rural power districts	1,719,792.85	156,476.13	....	11,795,415.50	11,951,891.63
	4,740,874.94	1,509,199.57	83,622,645.14	177,281,547.51	262,413,392.22

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

CAPITAL EXPENDITURES AND GRANTS—RURAL POWER DISTRICTS

Summary at October 31, 1937

Statement showing the Total Capital Expenditures to October 31, 1937, on the construction of Primary and Secondary lines in Rural Power Districts; the portion thereof in course of construction; and the investment in lines in operation; also the amounts of the Grants (fifty percent of both Primary and Secondary lines) paid or payable to the Commission by the Province of Ontario up to October 31, 1937

System	Total capital expenditure	In course of construction	In operation	Grants (50% of Primary and Secondary lines) paid or payable by the Province as authorized by Orders-in-Council*
	$ c.	$ c.	$ c.	$ c.
Niagara system	16,504,186.35	110,207.01	16,393,979.34	8,209,189.84
Georgian Bay system	2,650,136.35	112,530.73	2,537,605.62	1,271,485.37
Eastern Ontario system	4,698,586.56	84,967.84	4,613,618.72	2,329,059.97
Thunder Bay system	141,627.46	5,774.88	135,852.58	70,813.73
Non-System properties:				
Nipissing district	69,634.49	....	69,634.49	34,445.37
Manitoulin district	74,557.91	1,138.95	73,418.96	36,897.35
Totals	24,138,729.12	314,619.41	23,824,109.71	11,951,891.63

*Grants not made by Province in respect of a summer resort, street lighting systems in 71 districts, service buildings in 2 districts and amounts paid for business already established (hereinafter called Intangible Assets) in 9 rural distribution systems purchased from private companies.

NOTE:

The Grants payable by the Province—as above set out—in respect of rural power districts as at October 31, 1937, amount in the aggregate to	$11,951,891.63	
The cash paid over by the Province to the Commission up to October 31, 1937 on account of authorized grants to rural power districts—amounts to	11,730,362.10	
Balance payable by Province		$221,529.53

THE HYDRO-ELECTRIC POWER

Power Accounts Receivable

System or Property	Wholesale power consumers			
	Interim power bills	Accumulated amount standing as a charge or credit on October 31, 1937		Net total for wholesale consumers
		Charge	Credit	
	$ c.	$ c.	$ c.	$ c.
NIAGARA SYSTEM:				
Municipalities	1,608,033.98	146,032.57	318,696.27	1,435,370.28
Companies	601,575.07	....	....	601,575.07
Local and rural	....	....	....	....
Lincoln Electric	....	....	....	....
	2,209,609.05	146,032.57	318,696.27	2,036,945.35
GEORGIAN BAY SYSTEM:				
Municipalities	103,956.40	1,442.68	37,917.92	67,481.16
Companies	1,914.06	....	....	1,914.06
Local and rural	....	....	....	....
	105,870.46	1,442.68	37,917.92	69,395.22
EASTERN ONTARIO SYSTEM:				
Municipalities	268,394.21	112.99	123,861.89	144,645.31
Companies	41,653.46	....	....	41,653.46
Rural	....	....	....	....
Local	....	....	....	....
	310,047.67	112.99	123,861.89	186,298.77
THUNDER BAY SYSTEM:				
Municipalities	92,249.32	1,177.96	7,573.21	85,854.07
Companies	73,029.62	....	....	73,029.62
Rural and local	....	....	....	....
	165,278.94	1,177.96	7,573.21	158,883.69
NON-SYSTEM PROPERTIES:				
Nipissing rural	....	....	....	....
Manitoulin rural	....	....	....	....
	....	....	....	....
Grand totals	2,790,806.12	148,766.20	488,049.29	2,451,523.03

COMMISSION OF ONTARIO

—October 31, 1937

Retail power consumers—local and rural districts	Net total power accounts receivable	Balance sheet figures		Debit balances three months or more overdue
		Debit balances	Credit balances	
$ c.	$ c.	$ c.	$ c.	$ c.
....	1,435,370.28	1,458,741.87	23,371.59	....
....	601,575.07	601,575.07	....	57,068.27
469,076.00	469,076.00	469,076.00	....	42,043.91
4,848.63	4,848.63	4,848.63	....	....
473,924.63	2,510,869.98	2,534,241.57	23,371.59	99,112.18
....	67,481.16	69,208.34	1,727.18	....
....	1,914.06	1,914.06	....	....
102,351.74	102,351.74	102,351.74	....	7,197.89
102,351.74	171,746.96	173,474.14	1,727.18	7,197.89
....	144,645.31	148,737.34	4,092.03	....
....	41,653.46	41,653.46	....	....
147,347.21	147,347.21	147,347.21	....	11,246.50
10,281.02	10,281.02	10,281.02	....	....
157,628.23	343,927.00	348,019.03	4,092.03	11,246.50
....	85,854.07	85,854.07	....	....
....	73,029.62	73,029.62	....	....
7,291.11	7,291.11	7,291.11	....	1,178.76
7,291.11	166,174.80	166,174.80	....	1,178.76
2,451.03	2,451.03	2,451.03	....	40.12
3,496.40	3,496.40	3,496.40	....	26.42
5,947.43	5,947.43	5,947.43	....	66.54
747,143.14	3,198,666.17	3,227,856.97	29,190.80	118,801.87

THE HYDRO-ELECTRIC POWER

Funded Debt Issued or

Description	Application of proceeds
1¾/2/2-1/8/2¼/2-3/8% serial debentures	Repayment of Province of Ont. advances
4½% H-E.P.C. debentures	Refunding Toronto Power Co.
5% “ “	Refunding Toronto Power Co.
6% “ “	Toronto Power Co.
6% “ “	T. & Y. R.R. equipment.
2½% “ “	Refunding Gov't. advs. R. R., etc.
6% “ “	Refunding Ontario Power Co.
3½% “ “	Refunding D. P. & T. and E. D. Co.'s.
5% Ontario Power Co. bonds	Ontario Power Co.
2½% H-E.P.C. debentures	Refunding Gov't. advs. T. T., etc.
5% Ontario Transmission Co. bonds	Ontario Transmission Co.
4% H-E.P.C. debentures	Ontario Power Co.
4% “ “	Essex system.
4% “ “	Thorold system.
4¾% “ “	Dom. Power & Trans. Co.
Municipal debentures assumed	
RADIAL RAILWAYS:	
6% H-E. Railway bonds	T. & Y. Radial.
Funded Debt as shown on the Balance Sheet of The Hydro-Electric Power Commission of Ontario	....
NORTHERN ONTARIO PROPERTIES:	
3½/4/5% H-E.P.C. debentures	Ontario Power Service Corp'n
2½% H-E.P.C. debentures	Abitibi & St. Joseph districts.
2½% “ “	Refunding Ontario Power Service Corp'n
3½% “ “	and for financing plant extension.
GUELPH RADIAL RAILWAY:	
5% H-E. Railway bonds	Extensions and betterments.
Funded Debt relating to all properties vested in, or operated by the Commission	....
Hydro-Electric Radial Railway bonds pledged with the Bank of Montreal as security for loan of $500,000.00: 5% H-E. Railway bonds	Pt. C. & St. C. Radial.
Hydro-Radial debentures assumed by S. W. & A. Rly. Co. and the Province of Ontario	Essex County Railway.

COMMISSION OF ONTARIO

Assumed—October 31, 1937

Date of issue	Date of maturity	Principal outstanding October 31, 1937	Interest for the year 1936-1937	Interest accrued October 31, 1937
		$ c.	$ c.	$ c.
March 15, 1937	September 15, 1937/39	8,000,000.00	126,875.00	21,875.00
February 1, 1933	February 1, 1938	9,000,000.00	405,000.00	101,250.00
June 16, 1924	June 15, 1939	4,000,000.00	200,000.00	75,000.00
December 1, 1920	December 1, 1940	413,200.00	24,792.00	10,330.00
December 1, 1920	December 1, 1940	205,800.00	12,348.00	5,145.00
March 1, 1936	March 1, 1941	10,000,000.00	250,000.00	41,666.67
June 24, 1921	June 24, 1941	3,200,000.00	192,000.00	67,857.53
January 1, 1935	January 1, 1943	10,000,000.00	350,000.00	116,666.66
February 1, 1903	February 1, 1943	7,679,000.00	383,950.00	95,987.50
June 15, 1936	June 15, 1944	10,000,000.00	250,000.00	93,750.00
May 1, 1905	May 1, 1945	1,201,000.00	60,050.00	....
August 1, 1917	August 1, 1957	8,000,000.00	320,000.00	80,000.00
June 1, 1918	June 1, 1958	200,000.00	8,000.00	3,333.34
December 1, 1918	December 1, 1958	100,000.00	4,000.00	1,666.67
January 1, 1930	January 1, 1970	13,000,000.00	617,500.00	205,833.33
		84,999,000.00	3,204,515.00	920,361.70
Various	Various	13,612.62	1,477.11	387.54
		85,012,612.62	3,205,992.11	920,749.24
December 1, 1920	December 1, 1940	2,375,000.00	142,500.00	59,375.00
....	....	87,387,612.62	3,348,492.11	980,124.24
October 1, 1932	April 1, 1937	17,626,950.00	257,055.40	....
March 1, 1936	March 1, 1941	5,000,000.00	125,000.00	20,833.33
April 1, 1937	April 1, 1942	11,000,000.00	160,416.66	22,916.66
April 1, 1937	April 1, 1947	8,000,000.00	163,333.33	23,333.33
		24,000,000.00	705,805.39	67,083.32
May 1, 1931	November 1, 1970	300,000.00	15,000.00	....
....	....	111,687,612.62	4,069,297.50	1,047,207.56
November 1, 1919	November 1, 1969	1,200,000.00	....	....

In respect of the Sandwich, Windsor and Amherstburg Railway:

The Commission having—on the advice of its Solicitors—decided that the bonds of $5,816,205, issued by it between 1920 and 1926 (and guaranteed by the Province of Ontario), under the provisions of the Hydro-Electric Railway Act, in purchase of the Sandwich, Windsor and Amherstburg Railway and to make extensions and betterments thereto, ceased to be a liability of the Commission upon the passing of the Sandwich, Windsor and Amherstburg Railway Act in 1930 and upon the transfer of the Railway to the Sandwich, Windsor and Amherstburg Railway Company in 1931, such bonds have not been reflected as a liability in this Statement.

THE HYDRO-ELECTRIC POWER

Depreciation and Obsolescence

	Niagara system	Georgian Bay system
	$ c.	$ c.
Balances at November 1, 1936	25,555,484.76	1,946,448.24
Provisions in the year as per cost statements	1,535,172.54	121,371.85
Interest at 4% on reserves' balances	1,022,219.39	77,857.93
Adjustments re transfer of equipment	(40,048.41)	78.54
Sub-total	28,072,828.28	2,145,756.56
Expenditures for the year	337,628.69	40,312.22
Balances at October 31, 1937	27,735,199.59	2,105,444.34
Account balances:		
Power plants, transmission lines and transformer stations	24,782,640.21	1,833,237.53
Rural power districts	2,946,740.50	271,362.52
Rural lines	5,818.88	844.29
Nipissing rural power districts	....	....
Manitoulin rural power district	....	....
Administrative office building	....	....
Service buildings and equipment	....	....
	27,735,199.59	2,105,444.34

COMMISSION OF ONTARIO

Reserves—October 31, 1937

Eastern Ontario system	Thunder Bay system	Non-system properties	Service and administrative buildings and equipment	Total for power undertakings operated on a "cost basis"
$ c.	$ c.	$ c.	$ c.	$ c.
4,230,875.30	1,992,727.51	12,096.57	494,614.75	34,232,247.13
233,212.79	159,220.92	1,297.30	12,412.09	2,062,687.49
169,235.01	79,709.10	483.86	16,673.50	1,366,178.79
(6,524.59)	431.38	....	....	(46,063.08)
4,626,798.51	2,232,088.91	13,877.73	523,700.34	37,615,050.33
38,021.98	5,030.45	....	2,548.36	423,541.70
4,588,776.53	2,227,058.46	13,877.73	521,151.98	37,191,508.63
4,028,015.70	2,213,153.21	....	....	32,857,046.65
560,760.83	13,905.25	....	....	3,792,769.10
....	....	....	....	6,663.17
....	....	8,076.45	....	8,076.45
....	....	5,801.28	....	5,801.28
....	....	....	157,877.63	157,877.63
....	....	....	363,274.35	363,274.35
4,588,776.53	2,227,058.46	13,877.73	521,151.98	37,191,508.63

THE HYDRO-ELECTRIC POWER

Contingency Reserves

	Niagara system	Georgian Bay system
	$ c.	$ c.
Balances at November 1, 1936	4,236,145.34	537,888.76
Provision in the year as per cost statement	604,061.68	28,221.24
Interest at 4% on reserves' balances	169,445.82	21,515.55
Profits from sale of securities	30,604.47	2,552.12
The amounts provided in previous years in excess of requirements in respect of certain doubtful accounts now settled	234,516.17	....
Sub-total	5,274,773.48	590,177.67
Contingencies met with during year	197,606.41	22,700.56
Terminal Building—Hamilton	29,303.19	....
Balance at October 31, 1937	5,047,863.88	567,477.11
Account balances:		
Power plants, transmission lines, transformer stations and rural power districts	5,044,873.33	567,097.36
Rural lines	2,990.55	379.75
Nipissing rural power districts	....	....
Manitoulin rural power district	....	....
	5,047,863.88	567,477.11

COMMISSION OF ONTARIO

—October 31, 1937

Eastern Ontario system	Thunder Bay system	Non-system properties	Total for power undertakings operated on a "cost basis"
$ c.	$ c.	$ c.	$ c.
1,410,145.81	871,195.42	4,227.35	7,059,602.68
59,938.67	85,706.48	....	777,928.07
56,405.83	34,847.82	169.09	282,384.11
5,794.93	2.942.06	....	41,893.58
....	....	....	234,516.17
1,532,285.24	994,691.78	4,396.44	8,396,324.61
30,039.63	2,896.32	....	253,242.92
....	....	....	29,303.19
1,502,245.61	991,795.46	4,396.44	8,113,778.50
1,502,245.61	991,795.46	....	8,106,011.76
....	....	....	3,370.30
....	....	2,456.40	2,456.40
....	....	1,940.04	1,940.04
1,502,245.61	991,795.46	4,396.44	8,113,778.50

THE HYDRO-ELECTRIC POWER

Stabilization of Rates Reserves

	Niagara system
	$ c.
Balances at November 1, 1936	1,963,599.60
Appropriations in the year as per cost statement	2,337,400.00
Interest at 4% on stabilization balances	78,543.98
Balance as at October 31, 1937	4,379,543.58
Account balances:	
Systems	4,379,543.58

THE HYDRO-ELECTRIC POWER

Sinking Fund Reserves

	Niagara system	Georgian Bay system
	$ c.	$ c.
Balances at November 1, 1936	33,960,834.18	1,329,084.17
Sinking fund in the year as per cost statement	2,116,646.19	92,039.78
Interest at 4% on reserves' balances	1,358,433.37	53,163.37
Total	3,475,079.56	145,203.15
Balances at October 31, 1937	37,435,913.74	1,474,287.32
Account balances:		
Systems	36,614,799.19	1,390,540.97
Rural power districts	806,908.34	82,540.79
Rural lines	14,206.21	1,205.56
Bonnechere River storage system	....	....
Nipissing rural power districts	....	....
Manitoulin rural power district	....	....
Administrative office buildings	....	....
Service buildings and equipment	....	....
	37,435,913.74	1,474,287.32

COMMISSION OF ONTARIO

—October 31, 1937

Georgian Bay system	Eastern Ontario system	Thunder Bay system	Total for power undertakings operated on a "cost basis"
$ c.	$ c.	$ c.	$ c.
....	....	....	1,963,599.60
79,548.60	240,499.00	123,423.00	2,780,870.60
....	....	....	78,543.98
79,548.60	240,499.00	123,423.00	4,823,014.18
79,548.60	240,499.00	123,423.00	4,823,014.18

COMMISSION OF ONTARIO

—October 31, 1937

Eastern Ontario system	Thunder Bay system	Non-system properties	Service and administrative buildings and equipment	Totals for power undertakings operated on a "cost basis"
$ c.	$ c.	$ c.	$ c.	$ c.
1,762,211.23	1,657,176.86	12,458.00	367,188.85	39,088,953.29
194,453.23	253,889.59	2,451.48	24,827.66	2,684,307.93
70,488.45	66,287.07	498.32	14,687.55	1,563,558.13
264,941.68	320,176.66	2,949.80	39,515.21	4,247,866.06
2,027,152.91	1,977,353.52	15,407.80	406,704.06	43,336,819.35
1,866,270.66	1,974,018.72	....	....	41,845,629.54
160,882.25	3,334.80	....	....	1,053,666.18
....	....	....	....	15,411.77
....	....	11,519.37	....	11,519.37
....	....	1,974.05	....	1,974.05
....	....	1,914.38	....	1,914.38
....	....	....	241,951.94	241,951.94
....	....	....	164,752.12	164,752.12
2,027,152.91	1,977,353.52	15,407.80	406,704.06	43,336,819.35

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Account with
The Provincial Treasurer of the Province of Ontario
As at October 31, 1937

ADVANCES FROM AND REPAYMENTS TO THE PROVINCE OF ONTARIO

	Total	Northern Ontario Properties operated for the Province of Ontario	Niagara and other systems operated on a "cost basis"
	$ c.	$ c.	$ c.
ADVANCES FOR CAPITAL EXPENDITURES:			
Cash advances made by the Province to the Commission for capital expenditures purposes during the years 1909 to 1934 inclusive...............	207,250,258.34	8,272,889.39	198,977,368.95
Cash returned by the Commission to the Province on April 30, 1935, to cover the difference between advances made by the Province to the Commission during the year ended October 31, 1934, and the capital expenditures made out of such advances by the Commission in that year	247,507.98	74,001.99	173,505.99
Total advances for capital expenditures......	207,002,750.36	8,198,887.40	198,803,862.96
REPAYMENTS OF ADVANCES—1926-33:			
Cash repayments made by the Commission to the Province during the years 1926 to 1933 inclusive, which have been applied in each subsequent year to reduce the Commission's share in maturing Provincial obligations......................	17,008,616.73	....	17,008,616.73
Commission's Share in Provincial Bonds at Oct. 31, 1934.........................	189,994,133.63	8,198,887.40	181,795,246.23
REPAYMENTS OF ADVANCES:			
Retirements of Commission's share of Provincial bonds matured in the period Nov. 1, 1934, to Oct. 31, 1937—			
In year ending Oct. 31, 1935 3,946,628.69			
" " " " 1936 21,998,092.45			
" " " " 1937 13,557,615.63	39,502,336.77	1,667,479.98	37,834,856.79
Commission's share in Provincial bonds at Oct. 31, 1937.........................	150,491,796.86	6,531,407.42	143,960,389.44

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

DETAILED STATEMENTS

FOR MUNICIPALITIES AND RURAL POWER DISTRICTS

For the Year ended October 31, 1937

Cost of Power	Charges to Municipalities and Rural Power Districts
Rural Operating	Charges to Rural Power Districts
Credit or Charge	Accumulated Balances of Municipalities and Rural Power Districts on account of Annual Cost Adjustments.
Sinking Fund	Equities of Municipalities and Rural Power Districts

NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each
it by the Commission; the amount received by the Commission
or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating		
	To July 31 1937	To Oct. 31 1937			Cost of power pur-chased	Operating, main-tenance and adminis-trative expenses	Interest
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Acton	29.50	27.50	217,754.07	868.0	3,349.26	4,225.04	9,970.87
Agincourt	37.50	35.50	46,598.68	154.9	597.70	974.36	2,134.85
Ailsa Craig	48.50	46.50	33,695.48	95.5	368.50	996.86	1,545.73
Alvinston	72.50	70.50	45,177.89	84.7	326.82	1,620.30	2,079.61
Amherstburg	35.50	33.50	175,029.45	663.3	2,559.40	3,929.79	8,025.98
Ancaster twp.	29.50	27.50	59,113.23	261.4	1,008.64	1,696.44	2,708.07
Arkona	69.50	67.50	27,612.54	50.9	196.40	945.81	1,270.87
Aylmer	32.50	30.50	140,277.33	572.1	2,207.50	3,625.56	6,426.08
Ayr	31.50	29.50	46,559.41	188.5	727.34	1,083.96	2,085.31
Baden	30.50	28.50	78,598.93	328.9	1,269.09	1,942.98	3,600.88
Beachville	30.50	28.50	108,261.39	467.6	1,804.28	2,631.48	4,960.78
Belle River	37.50	35.50	37,318.92	137.2	529.40	1,021.00	1,708.31
Blenheim	36.50	34.50	102,713.57	387.1	1,493.66	3,010.00	4,718.54
Blyth	51.50	49.50	36,441.68	96.0	370.42	1,073.79	1,667.83
Bolton	40.50	38.50	38,573.15	129.5	499.69	949.73	1,746.67
Bothwell	44.50	42.50	33,022.22	113.5	437.95	1,307.07	1,512.86
Brampton	29.00	27.00	531,177.75	2,519.5	9,721.71	13,875.12	24,340.78
Brantford	24.50	22 50	3,102,443.98	15,119.7	58,340.71	59,704.14	141,488.71
Brantford twp.	29.50	27.50	133,238.55	643.2	2,481.84	4,621.63	6,068.70
Bridgeport	33.50	31.50	29,814.78	113.5	437.95	656.00	1,365.74
Brigden	62.50	60.50	32,483.96	69.7	268.94	1,178.13	1,491.86
Brussels	47.50	45.50	46,628.99	130.3	502.77	1,300.83	2,134.05
Burford	32.50	30.50	36,254.22	148.4	572.61	861.88	1,661.79
Burgessville	52.50	50.50	12,995.65	34.6	133.51	622.60	597.42
Caledonia	29.50	27.50	64,791.90	291.3	1,124.01	1,479.66	2,968.28
Campbellville	57.50	55.50	11,667.67	29.4	113.44	493.15	534.91
Cayuga	45.50	43.50	39,223.87	109.9	424.06	919.21	1,796.76
Chatham	28.50	26.50	1,116,531.41	5,041.7	19,453.85	25,992.14	51,167.39
Chippawa	23.50	21.50	45,448.02	267.1	1,030.63	1,021.79	2,083.13
Clifford	53.50	51.50	29,887.58	69.9	269.72	766.61	1,370.40
Clinton	35.50	33.50	130,597.83	474.4	1,830.51	3,649.60	5,970.88
Comber	43.50	41.50	45,172.89	139.6	538.66	1,257.92	2,079.51
Cottam	42.50	40.50	19,175.64	60.8	234.60	634.82	878.83
Courtright	67.50	65.50	20,731.05	38.9	150.10	720.89	947.36
Dashwood	47.50	45.50	25,405.20	76.2	294.02	765.79	1,183.51
Delaware	38.50	36.50	12,463.06	51.0	196.79	439.14	549.12
Dorchester	39.50	37.50	23,742.31	83.7	322.96	691.56	1,086.67
Drayton	53.50	51.50	42,566.22	100.4	387.40	1,204.37	1,951.72
Dresden	41.50	39.50	91,084.17	305.5	1,178.80	2,651.88	4,174.63
Drumbo	38.50	36.50	17,612.28	64.6	249.26	524.01	809.45

SYSTEM *N—COST OF POWER*

Municipality as the Cost—under Power Commission Act—of Power supplied to from each Municipality, and the amount remaining to be credited supplied to it in the year ending October 31, 1937

costs and fixed charges				Revenue received in excess of cost of power sold to private companies (Credit)	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,915.32	716.99	2,821.00	2,211.83	513.32	24,696.99	25,137.22	440.23
425.39	137.81	503.43	476.48	91.61	5,158.41	5,723.39	564.98
356.78	105.88	310.38	346.57	56.48	3,974.22	4,582.47	608.25
544.55	139.32	275.27	470.38	50.09	5,406.16	6,094.76	688.60
1,544.93	582.26	2,155.71	1,783.72	392.27	20,189.52	23,202.68	3,013.16
482.79	187.47	849.55	598.31	154.59	7,376.68	7,569.24	192.56
334.17	86.59	165.43	287.54	30.10	3,256.71	3,513.33	256.62
1,208.77	448.10	1,859.33	1,424.30	338.33	16,861.31	18,276.75	1,415.44
389.26	148.27	612.62	461.93	111.48	5,397.21	5,828.72	431.51
665.22	257.82	1,068.92	797.33	194.51	9,407.73	9,876.70	468.97
894.28	362.78	1,519.70	1,097.09	276.53	12,993.86	14,014.31	1,020.45
335.35	124.35	445.90	380.04	81.14	4,463.21	5,068.71	605.50
925.69	342.72	1,258.08	1,048.94	228.93	12,568.70	13,930.77	1,362.07
394.46	115.29	312.00	374.61	56.77	4,251.63	4,894.26	642.63
366.88	115.57	420.87	389.59	76.58	4,412.42	5,173.03	760.61
313.80	110.52	368.88	337.31	67.12	4,321.27	4,990.01	668.74
4,022.80	1,616.67	8,188.37	5,361.81	1,490.00	65,637.26	71,729.13	6,091.87
23,560.99	9,941.49	48,244.94	31,166.26	6,826.63	365,620.61	365,194.89	(425.72)
985.23	418.14	2,090.40	1,335.40	380.38	17,620.96	18,638.64	1,017.68
269.89	96.57	368.88	303.47	67.12	3,431.38	3,735.91	304.53
376.20	106.15	226.52	336.60	41.22	3,943.18	4,318.96	375.78
492.91	149.60	423.48	478.62	77.06	5,405.20	6,117.97	712.77
313.03	122.21	482.30	368.27	87.76	4,294.33	4,740.09	445.76
141.65	40.83	112.45	134.16	20.46	1,762.16	1,795.85	33.69
521.76	208.80	946.72	655.36	172.27	7,732.32	8,445.99	713.67
129.14	35.17	95.55	120.27	17.39	1,504.24	1,672.63	168.39
418.65	119.91	357.18	402.94	64.99	4,373.72	4,939.71	565.99
8,685.53	3,630.02	16,385.53	11,295.15	2,981.60	133,628.01	141,221.47	7,593.46
283.24	131.78	868.08	454.03	157.96	5,714.72	6,134.10	419.38
338.35	93.78	227.18	308.64	41.34	3,333.34	3,701.08	367.74
1,205.17	407.16	1,541.80	1,328.79	280.55	15,653.36	16,086.39	433.03
457.64	145.18	453.70	465.19	82.56	5,315.24	5,988.00	672.76
188.51	62.85	197.60	196.43	35.96	2,357.68	2,552.90	195.22
247.56	61.84	126.43	214.25	23.00	2,445.43	2,603.31	157.88
268.34	81.13	247.65	265.07	45.06	3,060.45	3,584.37	523.92
99.98	38.80	165.75	121.51	30.16	1,580.93	1,933.64	352.71
224.86	77.13	272.02	242.08	49.50	2,867.78	3,261.05	393.27
480.51	130.71	326.30	439.49	59.38	4,861.12	5,317.46	456.34
878.26	298.87	992.88	931.50	180.67	10,926.15	12,521.06	1,594.91
164.46	57.11	209.95	180.11	38.20	2,156.15	2,452.19	296.04

NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each
it by the Commission; the amount received by the Commission
or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Share of operating		
	To July 31 1937	To Oct. 31 1937			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
	$ c.	$ c.	$ c.		$ c.	$ c.	$ c.
Dublin	57.00	55.00	15,438.10	38.1	147.02	688.58	707.05
Dundas	24.50	22.50	353,524.79	1,820.5	7,024.56	6,448.88	16,199.33
Dunnville	29.50	27.50	213,636.09	974.1	3,758.65	4,559.87	9,789.31
Dutton	35.50	33.50	56,155.73	223.9	863.94	1,885.57	2,573.21
Elmira	33.50	31.50	164,427.71	636.9	2,457.54	3,183.33	7,534.46
Elora	33.50	31.50	81,204.25	306.4	1,182.27	1,969.03	3,718.25
Embro	44.50	42.50	30,053.91	103.0	397.43	953.48	1,376.87
Erieau	51.50	49.50	29,800.04	83.5	322.19	862.66	1,367.75
Erie Beach	62.50	60.50	7,858.08	19.9	76.79	267.01	360.60
Essex	33.50	31.50	122,837.66	466.6	1,800.42	2,721.97	5,630.84
Etobicoke twp.	25.50	23.50	942,104.29	4,556.8	17,582.82	17,913.09	43,127.93
Exeter	36.50	34.50	118,146.46	423.9	1,635.66	3,208.92	5,412.50
Fergus	33.50	31.50	273,644.52	1,072.2	4,137.18	5,707.05	12,530.03
Fonthill	31.50	29.50	23,079.35	114.6	442.19	893.74	1,057.64
Forest	43.50	41.50	119,142.04	365.2	1,409.16	3,523.88	5,503.19
Galt	24.50	22.50	1,378,003.40	6,729.6	25,966.76	30,183.48	63,142.52
Georgetown	33.50	31.50	324,456.92	1,212.3	4,677.77	6,537.08	14,860.62
Glencoe	53.50	51.50	73,961.17	189.7	731.97	2,014.80	3,391.22
Goderich	40.50	38.50	342,191.05	1,092.1	4,213.96	9,558.88	15,576.88
Granton	50.50	48.50	19,772.87	56.8	219.17	686.76	880.69
Guelph	25.50	23.50	1,848,954.82	9,084.1	35,051.81	38,030.21	84,667.66
Hagersville	30.50	28.50	165,567.60	658.7	2,541.65	2,971.31	7,591.54
Hamilton	22.00	20.00	19,234,645.31	104,252.1	402,266.05	325,574.43	881,456.89
Harriston	40.50	38.50	95,881.46	311.5	1,201.95	2,929.88	4,399.04
Harrow	36.50	34.50	114,022.65	412.3	1,590.90	2,591.71	5,226.42
Hensall	47.50	45.50	58,596.42	157.3	606.96	1,384.68	2,683.92
Hespeler	26.50	24.50	391,480.25	1,897.2	7,320.52	8,734.54	17,938.18
Highgate	44.50	42.50	22,189.67	68.3	263.54	692.61	1,016.53
Humberstone	26.50	24.50	87,529.20	409.2	1,578.93	1,757.73	4,010.75
Ingersoll	26.50	24.50	487,274.00	2,244.9	8,662.15	10,571.33	22,334.67
Jarvis	37.50	35.50	55,003.48	178.5	688.76	1,068.09	2,521.28
Kingsville	36.50	34.50	133,074.61	474.0	1,828.97	2,928.03	6,099.56
Kitchener	24.50	22.50	3,927,128.73	19,363.2	74,714.63	74,434.28	179,924.80
Lambeth	39.50	37.50	28,377.38	99.0	382.00	862.11	1,300.54
LaSalle	34.50	32.50	51,782.81	196.2	757.06	1,519.88	2,372.82
Leamington	35.50	33.50	378,407.51	1,351.7	5,215.66	8,366.83	17,335.13
Listowel	34.50	32.50	246,770.93	964.9	3,723.15	6,850.50	11,328.09
London	24.50	22.50	6,524,715.36	32,685.0	126,117.99	124,220.21	298,996.34
London twp.	31.50	29.50	98,910.82	428.5	1,653.41	2,389.04	4,531.95
Long Branch	27.50	25.50	168,235.15	774.0	2,986.55	3,574.71	7,708.05

SYSTEM *N—COST OF POWER*

Municipality as the Cost—under Power Commission Act—of Power supplied to from each Municipality, and the amount remaining to be credited supplied to it in the year ending October 31, 1937

costs and fixed charges				Revenue received in excess of cost of power sold to private companies (Credit)	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
171.34	56.00	123.83	159.05	22.53	2,030.34	2,145.02	114.68
2,490.48	1,085.10	5,916.62	3,554.88	1,076.62	41,643.23	43,650.50	2,007.27
1,746.49	731.57	3,165.82	2,160.09	576.07	25,335.73	28,243.53	2,907.80
492.16	180.59	727.68	570.82	132.41	7,161.56	7,834.69	673.13
1,472.18	543.59	2,069.92	1,673.15	376.65	18,557.52	20,979.08	2,421.56
741.17	266.65	995.80	826.44	181.20	9,518.41	10,087.41	569.00
290.09	97.73	334.75	307.01	60.91	3,696.45	4,517.16	820.71
314.34	94.42	271.38	306.75	49.38	3,490.11	4,232.31	742.20
86.26	24.91	64.67	81.08	11.77	949.55	1,222.46	272.91
1,081.85	410.66	1,516.45	1,251.30	275.94	14,137.55	15,322.88	1,185.33
6,902.67	2,963.77	14,809.60	9,491.53	2,694.84	110,096.57	113,830.70	3,734.13
1,108.98	377.32	1,377.67	1,205.10	250.69	14,075.46	15,241.35	1,165.89
2,435.85	887.06	3,484.65	2,781.27	634.09	31,329.00	35,316.46	3,987.46
174.98	67.43	372.45	232.50	67.77	3,173.16	3,548.28	375.12
1,213.09	401.19	1,186.90	1,231.48	215.97	14,252.92	15,675.58	1,422.66
10,184.23	4,364.82	21,871.20	13,890.85	3,979.80	165,624.06	161,412.91	(4,211.15)
2,981.33	1,035.31	3,939.98	3,304.17	716.94	36,619.32	39,984.98	3,365.66
807.15	234.49	616.52	762.20	112.19	8,446.16	10,048.96	1,602.80
3,374.48	1,034.45	3,549.32	3,480.24	645.86	40,142.35	42,343.73	2,201.38
199.53	58.25	184.60	197.23	33.59	2,392.64	2,845.19	452.55
13,595.51	5,921.88	29,523.32	18,620.54	5,372.23	220,038.70	227,084.50	7,045.80
1,468.05	532.57	2,140.78	1,684.23	389.55	18,540.58	19,631.51	1,090.93
127,711.89	58,525.78	338,819.33	192,943.74	61,653.32	2,265,644.79	2,240,468.97	(25,175.82)
948.10	313.91	1,012.38	982.56	184.22	11,603.60	12,450.01	846.41
1,038.15	377.85	1,339.98	1,163.39	243.83	13,084.57	14,782.02	1,697.45
632.84	178.85	511.23	602.55	93.03	6,508.00	7,385.15	877.15
2,916.06	1,238.01	6,165.90	3,947.63	1,121.98	47,138.86	49,276.89	2,138.03
223.61	71.11	221.97	227.40	40.39	2,676.38	3,004.02	327.64
694.05	290.84	1,329.90	884.05	242.00	10,304.25	10,630.70	326.45
3,807.87	1,561.08	7,295.92	4,926.19	1,327.61	57,831.60	58,343.60	512.00
549.89	172.58	580.12	563.15	105.56	6,038.31	6,601.38	563.07
1,223.33	449.17	1,540.50	1,358.43	280.32	15,147.67	17,059.47	1,911.80
28,656.26	12,520.69	62,930.40	39,564.42	11,451.16	461,294.32	464,474.45	3,180.13
270.95	90.03	321.75	289.83	58.55	3,458.66	3,867.37	408.71
456.59	174.96	637.65	527.34	116.03	6,330.27	6,656.01	325.74
3,469.25	1,225.40	4,393.02	3,860.25	799.38	43,066.16	47,045.95	3,979.79
2,183.76	817.01	3,135.92	2,514.90	570.63	29,982.70	32,775.74	2,793.04
46,733.24	20,591.10	106,226.23	65,699.82	19,329.51	769,255.42	784,836.67	15,581.25
813.24	317.44	1,392.62	1,002.12	253.41	11,846.41	13,290.59	1,444.18
1,297.79	536.45	2,515.50	1,700.18	457.73	19,861.50	20,887.48	1,025.98

NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount received by the Commission or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating		
	To July 31 1937	To Oct. 31 1937			Cost of power pur-chased	Operating, main-tenance and adminis-trative expenses	Interest
	$ c.	$ c.	$ c.		$ c.	$ c.	$ c.
Lucan	35.50	33.50	39,120.51	152.1	586.89	1,406.36	1,725.30
Lynden	35.50	33.50	21,466.66	84.2	324.89	542.38	983.44
Markham	34.50	32.50	77,905.88	303.3	1,170.31	2,525.26	3,569.08
Merlin	43.50	41.50	20,671.26	64.9	250.42	608.61	950.49
Merritton	21.50	19.50	885,488.48	5,183.5	20,001.00	17,107.03	39,854.39
Milton	32.50	30.50	222,272.77	950.7	3,668.36	6,338.25	10,200.80
Milverton	33.50	31.50	73,934.99	282.4	1,089.67	1,810.94	3,387.87
Mimico	23.50	21.50	420,689.99	2,160.4	8,336.10	8,426.64	19,276.67
Mitchell	31.50	29.50	109,768 19	456.0	1,759.52	3,029.73	5,030.60
Moorefield	62.50	60.50	18,477.90	39.6	152.80	713.44	842.50
Mount Brydges	39.50	37.50	28,853.14	107.5	414.80	1,165.39	1,275.71
Newbury	51.50	49.50	14,988.07	42.1	162.45	451.31	686.56
New Hamburg	32.50	30.50	115,563.68	455.0	1,755.66	2,278.50	5,294.10
New Toronto	27.50	25.50	1,416,856.27	6,517.3	25,147.57	28,418.87	64,903.96
Niagara Falls	19.00	17.00	1,371,208.39	8,958.5	34,567.17	25,804.57	62,862.74
Niagara-on-the Lake	24.50	22.50	92,372.53	530.1	2.045.44	3,224.45	4,233.74
Norwich	32.50	30.50	84,540.23	344.9	1,330.83	2,266.91	3,875.41
Oil Springs	41.50	39.50	60,436.04	195.9	755.90	1,766.61	2,769.52
Otterville	42.50	40.50	29,581.54	95.4	368.11	895.52	1,354.61
Palmerston	37.50	35.50	111,673.44	402.6	1,553.47	3,324.58	5,124.78
Paris	25.50	23.50	254,878.89	1,238.4	4,778.48	5,432.40	11,675.95
Parkhill	57.50	55.50	64,170.38	136.9	528.24	1,330.91	2,942.21
Petrolia	37.50	35.50	266,433.28	938.7	3,622.05	8,222.01	12,209.44
Plattsville	47.50	45.50	25,300.71	71.0	273.96	653.53	1.161.74
Point Edward	35.50	33.50	260,889.79	1,066.4	4,114.80	9,713.26	11,946.70
Port Colborne	26.50	24.50	335,314.71	1,567.6	6,048.72	6,313.00	15,364.78
Port Credit	31.50	29.50	142,139.72	622.9	2,403.52	3,884.91	6,511.98
Port Dalhousie	27.50	25.50	136,622.48	650.2	2,508.85	2,986.01	6,184.22
Port Dover	35.50	33.50	92,904.91	344.2	1,328.13	1,879.44	4,255.69
Port Rowan	52.50	50.50	21,820.11	62.7	241.93	439.35	977.76
Port Stanley	36.50	34.50	117,646.74	421.5	1,626.40	2,794.05	5,417.08
Preston	24.50	22.50	547,082.54	2,714.2	10,472.98	12,472.21	25,068.64
Princeton	42.50	40.50	34,047.65	108.2	417.50	965.53	1,563.99
Queenston	26.50	24.50	19,566.78	98.6	380.46	654.92	845.40
Richmond Hill	32.50	30.50	87,392.01	357.2	1,378.29	2,545.93	4,003.81
Ridgetown	35.50	33.50	122,054.69	460.7	1,777.65	3,434.10	5,592.45
Riverside	31.50	29.50	243,543.59	914.1	3,527.14	5,164.16	11,164.24
Rockwood	37.50	35.50	30,332.77	101.9	393.19	626.95	1,388.85
Rodney	47.00	45.00	45,887.96	131.3	506.63	1,712.27	2,101.17
St. Catharines	20.50	18.50	1,936,000.51	11,248.3	43,402.57	37,236.65	87,407.14

SYSTEM *N—COST OF POWER*

Municipality as the Cost—under Power Commission Act—of Power supplied to from each Municipality, and the amount remaining to be credited supplied to it in the year ending October 31, 1937

costs and fixed charges				Revenue received in excess of cost of power sold to private companies (Credit)	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
326.88	121.42	494.33	382.54	89.95	4,953.77	5,305.59	351.82
191.93	67.04	273.65	218.28	49.79	2,551.82	2,949.80	397.98
632.71	242.29	985.72	792.43	179.37	9,738.43	10,296.32	557.89
207.43	69.00	210.92	212.53	38.38	2,471.02	2,788.58	317.56
5,220.24	2,450.00	16,846.37	8,679.60	3,065.46	107,093.17	108,780.33	1,687.16
1,850.90	669.78	3,089.77	2,256.94	562.23	27,512.57	30,314.16	2,801.59
662.86	250.54	917.80	752.71	167.01	8,705.38	9,309.02	603.64
2,889.06	1,269.06	7,021.30	4,230.75	1,277.63	50,171.95	49,691.53	(480.42)
926.21	352.55	1,482.00	1,114.23	269.67	13,425.17	14,115.65	690.48
213.35	56.93	128.70	190.07	23.42	2,274.37	2,457.75	183.38
249.49	89.74	349.38	283.32	63.57	3,764.26	4,193.69	429.43
157.49	50.68	136.83	153.96	24.90	1,774.38	2,153.10	378.72
1,022.72	374.87	1,478.75	1,174.93	269.08	13,110.45	14,528.16	1,417.71
10,927.80	4,571.04	21,181.22	14,316.00	3,854.28	165,612.18	175,772.39	10,160.21
7,204.56	3,711.25	29,115.12	13,616.80	5,297.94	171,584.27	165,677.05	(5,907.22)
594.73	248.84	1,722.82	923.97	313.49	12,680.50	12,629.93	(50.57)
730.51	278.08	1,120.93	858.97	203.97	10,257.67	11,018.87	761.20
590.93	208.36	636.67	618.61	115.85	7,230.75	8,038.33	807.58
294.68	94.54	310.05	302.61	56.42	3,563.70	3,998.30	434.60
1,041.64	368.72	1,308.45	1,140.92	238.09	13,624.47	14,881.08	1,256.61
1,894.13	804.06	4,024.80	2,569.18	732.37	30,446.63	30,940.54	493.91
749.45	191.46	444.93	663.89	80.96	6,770.13	7,804.15	1,034.02
2,483.80	905.25	3,050.79	2,720.09	555.14	32,658.29	35,330.45	2,672.16
269.92	79.66	230.75	260.54	41.99	2,888.11	3,333.52	445.41
2,191.38	873.49	3,465.81	2,647.65	630.66	34,322.43	37,348.06	3,025.63
2,658.81	1,114.15	5,094.69	3,386.71	927.06	39,053.80	40,749.84	1,696.04
1,156.48	462.65	2,024.43	1,439.28	368.39	17,514.86	19,300.22	1,785.36
1,043.10	408.84	2,113.14	1,361.32	384.52	16,220.96	17,510.08	1,289.12
857.54	294.60	1,118.65	946.51	203.56	10,477.00	12,023.05	1,546.05
222.58	65.33	203.77	219.01	37.08	2,332.65	3,258.85	926.20
1,114.23	384.00	1,369.88	1,206.38	249.27	13,662.75	15,053.33	1,390.58
3,977.07	1,738.68	8,821.15	5,510.91	1,605.14	66,456.50	65,105.94	(1,350.56)
343.70	109.18	351.65	349.57	63.99	4,037.13	4,537.03	499.90
129.59	53.68	320.45	185.18	58.31	2,511.37	2,556.56	45.19
679.76	275.07	1,160.90	887.34	211.24	10,719.86	11,419.21	699.35
1,094.09	406.07	1,497.28	1,243.03	272.45	14,772.22	16,117.37	1,345.15
2,163.02	839.05	2,970.83	2,481.99	540.59	27,769.84	28,346.39	576.55
296.38	100.89	331.18	309.88	60.26	3,387.06	3,767.00	379.94
482.97	143.59	426.72	471.18	77.65	5,766.88	6,106.05	339.17
11,630.26	5,371.23	36,556.97	19,047.06	6,652.11	233,999.77	224,736.00	(9,263.77)

NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount received by the Commission or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating		
	To July 31 1937	To Oct. 31 1937			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
	$ c.	$ c.	$ c.		$ c.	$ c.	$ c.
St. Clair Beach....	37.50	35.50	22,142.34	74.0	285.53	655.89	1,014.85
St. George........	37.50	35.50	42,625.30	161.0	621.23	1,168.59	1,952.36
St. Jacobs.........	31.50	29.50	61,812.87	260.5	1,005.15	1,488.65	2,831.69
St. Marys.........	33.50	31.50	294,185.91	1,252.5	4,832.88	9,175.74	13,476.86
St. Thomas.......	25.50	23.50	1,444,702.52	7,193.0	27,754.83	32,005.84	66,215.73
Sarnia............	30.50	28.50	1,860,416.28	7,499.0	28,935.56	42,899.03	85,264.04
Scarboro twp......	29.50	27.50	748,203.75	3,088.0	11,915.32	12,925.04	34,283.75
Seaforth..........	32.50	30.50	122,985.44	480.6	1,854.44	3,589.11	5,632.04
Simcoe...........	27.50	25.50	398,297.12	1,841.9	7,107.14	8,088.26	18,247.55
Springfield........	45.50	43.50	22,514.96	60.0	231.52	798.20	1,032.12
Stamford twp......	19.50	17.50	318,670.67	2,063.9	7,963.74	6,611.13	14,607.94
Stouffville........	42.50	40.50	68,217.40	218.5	843.10	2,234.81	3,122.13
Stratford.........	27.50	25.50	1,427,176.31	6,617.1	25,532.67	32,185.77	65,393.45
Strathroy.........	31.50	29.50	259,743.44	1,079.8	4,166.50	5,135.91	11,896.12
Streetsville........	37.50	35.50	26,289.32	105.6	407.47	889.82	1,204.46
Sutton...........	49.50	47.50	74,575.39	213.7	824.58	2,228.04	3,423.23
Swansea..........	......	29.00	35,439.76	170.4	657.50	1,501.66	1,618.59
Tavistock.........	33.50	31.50	132,561.80	524.8	2,024.99	3,353.40	6,140.37
Tecumseh.........	34.50	32.50	88,782.18	311.1	1,200.41	2,613.21	4,069.47
Thamesford.......	37.50	35.50	40,638.27	157.0	605.80	1,123.71	1,861.83
Thamesville.......	37.50	35.50	49,803.59	195.1	752.81	1,519.37	2,282.01
Thedford.........	64.50	62.50	33,394.04	71.8	277.05	1,129.79	1,538.36
Thorndale........	62.50	60.50	16,460.63	39.6	152.80	561.51	753.92
Thorold..........	22.50	20.50	372,001.16	2,063.5	7,962.20	7,441.62	16,865.16
Tilbury...........	35.50	33.50	143,122.28	549.0	2,118.37	4,006.28	6,597.37
Tillsonburg.......	30.50	28.50	243,745.09	1,026.9	3,962.39	5,344.80	11,172.64
Toronto..........	23.60	21.60	61,680,304.21	297,535.7	1,148,068.07	1,001,723.55	2,826,237.09
Toronto twp.......	29.50	27.50	456,427.84	1,968.8	7,596.80	12,351.82	20,912.18
Trafalgar twp. (No. 1 area).....	......	26.50	79,416.88	350.7	1,353.21	1,749.24	3,638.96
Trafalgar twp. (No. 2 area).....	......	27.50	24,798.31	105.5	407.08	639.44	1,136.27
Wallaceburg......	33.50	31.50	517,888.31	1,957.5	7,553.19	11,773.05	23,736.47
Wardsville........	59.50	57.50	12,983.33	33.6	129.65	420.63	594.69
Waterdown.......	29.50	27.50	46,326.55	213.8	824.97	1,114.60	2,122.58
Waterford........	29.50	27.50	87,913.67	386.3	1,490.57	1,989.49	4,027.53
Waterloo.........	24.50	22.50	687,975.70	3,342.7	12,898.10	13,514.47	31,519.81
Watford..........	47.50	45.50	85,006.49	242.3	934.94	2,566.97	3,900.28
Welland..........	21.50	19.50	864,180.17	5,240.1	20,219.39	15,203.51	39,689.67
Wellesley.........	47.50	45.50	33,333.20	91.4	352.68	818.43	1,526.71
West Lorne.......	38.50	36.50	33,432.42	118.1	455.70	1,330.79	1,531.78
Weston...........	24.50	22.50	702,156.59	3,530.9	13,624.29	13,662.40	32,145.04

SYSTEM *N—COST OF POWER*

Municipality as the Cost—under Power Commission Act—of Power supplied to from each Municipality, and the amount remaining to be credited supplied to it in the year ending October 31, 1937

costs and fixed charges				Revenue received in excess of cost of power sold to private companies (Credit)	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
211.50	75.09	240.51	226.47	43.76	2,666.08	2,712.56	46.48
388.59	135.27	523.25	433.93	95.21	5,128.01	5,954.36	826.35
520.23	204.70	846.62	626.83	154.06	7,369.81	8,053.90	684.09
2,384.07	986.80	4,070.62	2,982.11	740.71	37,168.37	41,299.93	4,131.56
10,420.73	4,576.88	23,377.25	14,554.15	4,253.85	174,651.56	179,908.52	5,256.96
15,820.78	6,199.54	24,371.76	18,906.86	4,434.82	217,962.75	224,891.83	6,929.08
5,768.67	2,295.95	10,036.00	7,595.40	1,826.21	82,993.92	89,479.65	6,485.73
1,084.33	389.27	1,561.95	1,250.26	284.22	15,077.18	15,350.07	272.89
3,106.03	1,240.92	5,986.18	4,023.99	1,089.28	46,710.79	49,661.64	2,950.85
243.82	68.43	195.00	231.54	35.48	2,765.15	2,698.31	(66.84)
1,700.89	863.92	6,707.68	3,165.93	1,220.57	40,400.66	39,156.77	(1,243.89)
636.33	208.47	710.12	697.59	129.22	8,323.33	9,168.32	844.99
10,948.01	4,664.31	21,505.58	14,419.20	3,913.27	170,735.72	178,445.77	7,710.05
2,205.22	790.52	3,509.34	2,634.74	638.58	29,699.77	33,439.00	3,739.23
228.98	88.83	343.20	267.11	62.45	3,367.42	3,899.52	532.10
743.47	227.41	694.53	767.30	126.38	8,782.18	10,426.82	1,644.64
228.79	102.40	553.80	356.28	100.77	4,918.25	4,942.14	23.89
1,180.87	448.46	1,705.60	1,363.03	310.36	15,906.36	17,285.15	1,378.79
824.59	302.15	1,011.07	906.79	183.98	10,743.71	10,525.93	(217.78)
363.94	129.89	510.25	413.49	92.85	4,916.06	5,802.01	885.95
435.05	166.18	634.07	506.55	115.38	6,180.66	7,220.84	1,040.18
388.05	107.42	233.35	347.10	42.46	3,978.66	4,586.81	608.15
184.96	50.16	128.70	169.69	23.42	1,978.32	2,454.27	475.95
2,405.65	1,081.93	6,706.38	3,685.17	1,220.33	44,927.78	45,501.84	574.06
1,281.85	477.16	1,784.26	1,465.87	324.67	17,406.49	19,228.09	1,821.60
2,055.09	767.71	3,337.42	2,473.31	607.30	28,506.06	30,801.61	2,295.55
399,503.80	178,762.18	966,991.12	622,096.12	175,958.98	6,967,422.95	6,877,952.34	(89,470.61)
3,752.23	1,479.81	6,398.59	4,624.98	1,164.33	55,952.08	56,951.26	999.18
652.15	271.17	1,139.77	804.04	207.40	9,401.14	8,621.31	(779.83)
209.80	86.12	342.88	251.43	62.39	3,010.63	2,904.00	(106.63)
4,640.37	1,693.99	6,361.87	5,275.68	1,157.64	59,876.98	64,551.38	4,674.40
141.00	42.31	109.20	133.63	19.87	1,551.24	1,980.49	429.25
364.62	145.77	694.85	468.12	126.44	5,609.07	6,193.37	584.30
717.12	286.67	1,255.48	890.06	228.45	10,428.47	11,202.11	773.64
5,097.40	2,188.50	10,863.77	6,935.68	1,976.83	81,040.90	80,135.62	(905.28)
886.46	277.82	787.47	874.34	143.29	10,084.99	11,381.46	1,296.47
5,159.28	2,523.50	17,030.32	8,636.39	3,098.93	105,363.13	109,947.61	4,584.48
357.22	102.68	297.05	342.57	54.05	3,743.29	4,290.43	547.14
316.78	107.72	383.82	341.23	69.84	4,397.98	4,485.82	87.84
4,931.43	2,106.62	11,475.42	7,061.79	2,088.13	82,918.86	84,722.40	1,803.54

NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount received by the Commission or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Share of operating		
	To July 31 1937	To Oct. 31 1937			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
Wheatley	50.50	48.50	53,135.14	135.1	521.30	1,077.48	2,434.81
Windsor	28.00	26.00	8,018,270.93	35,824.5	138,232.05	145,255.44	372,262.95
Woodbridge	32.50	30.50	96,191.57	397.5	1,533.79	1,950.19	4,406.27
Woodstock	25.50	23.50	1,237,281.07	5,966.5	23,022.29	25,752.92	56,701.48
Wyoming	49.50	47.50	27,181.37	73.3	282.83	856.31	1,245.37
York East twp.	29.50	27.50	1,200,892.09	5,761.2	22,230.11	48,790.21	55,025.49
York North twp.	29.50	27.50	785,347.15	3,387.8	13,072.13	20,559.59	35,889.50
Zurich	59.50	57.50	33,430.17	78.0	300.97	968.31	1,551.38
Mimico Asylum			16,848.44	77.5	299.04	310.21	793.20
Ontario Reformatory			59,673.42	275.1	1,061.50	1,216.54	2,732.52
Prison Brick Yard			2,934.90	13.5	52.09	35.76	147.22
Toronto Transportation Com.			66,335.44	329.8	1,272.56	1,295.06	3,039.49
Sandwich, Windsor & Amherstburg Rly Co.			636,058.52	2,783.1	10,738.84	11,409.40	29,354.59
Totals—Municipalities			141,590,005.39	685,199.1	2,643,901.96	2,631,865.14	6,489,836.77
RURAL POWER DISTRICTS							
Acton R.P.D.—Erin, Esquesing and Nassagaweya twps.			3,838.32	15.3	59.04	81.13	175.77
Ailsa Craig R.P.D.—Lobo, McGillivray and Williams E. twps.			2,413.00	7.3	28.17	68.27	109.99
Alvinston R.P.D.—Brooke twp.			2,933.63	5.5	21.22	86.16	135.01
Amherstburg R.P.D.—Anderdon, Colchester N., Colchester S. and Malden twps.			188,342.59	701.9	2,708.34	4,077.89	8,636.03
Aylmer R.P.D.—Bayham, Dereham, Dorchester N., Dorchester S., Malahide and Yarmouth twps.			105,167.20	416.2	1,605.95	2,424.93	4,817.62
Ayr R.P.D.—Blenheim, Dumfries N. and Dumfries S. twps.			11,991.39	50.2	193.70	347.19	539.44
Baden R.P.D.—Blandford, Blenheim, Easthope N., Easthope S., Waterloo, Wellesley, Wilmot and Zorra E., twps.			119,189.95	489.7	1,889.56	2,281.54	5,460.32
Beamsville R.P.D.—Caistor, Clinton, Gainsborough, Grimsby N., Grimsby S., Louth, Pelham and Wainfleet twps.			313,569.43	1,370.5	5,288.19	7,492.79	13,999.19
Belle River R.P.D.—Maidstone and Rochester twps.			67,711.28	252.2	973.14	1,584.60	3,099.70
Blenheim R.P.D.—Raleigh and Harwich twps.			43,808.23	165.3	637.82	1,056.50	2,012.49

SYSTEM *N—COST OF POWER*

Municipality as the Cost—under Power Commission Act—of Power supplied to from each Municipality, and the amount remaining to be credited supplied to it in the year ending October 31, 1937

costs and fixed charges				Revenue received in excess of cost of power sold to private companies (Credit)	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
576.83	163.82	439.07	547.34	79.90	5,680.75	6,749.33	1,068.58
63,382.78	26,419.88	116,429.62	82,257.21	21,186.17	923,053.76	986,209.88	63,156.12
813.18	312.02	1,291.87	976.13	235.08	11,048.37	12,704.65	1,656.28
9,249.11	3,998.21	19,391.12	12,481.09	3,528.52	147,067.70	149,116.43	2,048.73
289.62	87.79	238.23	279.56	43.35	3,236.36	3,590.53	354.17
7,834.21	3,485.31	18,723.90	12,114.89	3,407.10	164,797.02	167,115.88	2,318.86
5,814.71	2,427.38	11,010.35	7,936.56	2,003.50	94,706.72	98,178.16	3,471.44
386.05	103.20	253.50	349.51	46.13	3,866.79	4,596.85	730.06
136.96	55.52	251.87	175.16	45.83	1,976.13	2,362.70	386.57
466.92	190.98	894.08	602.65	162.69	7,002.50	7,427.23	424.73
26.82	10.16	43.87	32.60	7.98	340.54	411.24	70.70
472.76	199.85	1,071.85	668.12	195.04	7,824.65	9,657.46	1,832.81
5,066.42	2,084.46	9,045.07	6,490.28	1,645.89	72,543.17	85,628.28	13,085.11
991,192.28	429,304.53	2,226,003.01	1,428,365.95	403,103.31	16,437,366.33	16,611,805.95	314,095.71 (139,656.09)
33.77	12.64	49.72	38.99	9.05	442.01	442.01	see page 219
24.59	7.57	23.72	24.61	4.32	282.60	282.60	"
35.35	9.04	17.87	30.54	3.25	331.94	331.94	"
1,681.70	627.26	2,281.18	1,920.42	415.10	21,517.72	21,517.72	"
926.13	341.56	1,352.65	1,068.98	246.13	12,291.69	12,291.69	"
98.44	38.25	163.14	119.34	29.69	1,469.81	1,469.81	"
1,022.90	390.21	1,591.52	1,209.91	289.60	13,556.36	13,556.36	"
2,517.19	925.68	4,454.13	3,091.13	810.50	36,957.80	36,957.80	"
603.16	226.24	819.66	689.27	149.15	7,846.62	7,846.62	"
394.51	146.15	537.22	447.37	97.76	5,134.30	5,134.30	"

NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount received by the Commission or charged to each Municipality in respect of power

Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating		
			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
	$ c.		$ c.	$ c.	$ c.
Bond Lake R.P.D.—King, Markham, Scarboro, Tecumseth, Vaughan, Whitchurch and York N. twps.	316,796.74	1,208.8	4,664.27	9,119.43	14,525.84
Bothwell R.P.D.—Aldborough, Ekfrid, Mosa, Orford and Zone twps.	72,245.28	239.0	922.20	1,621.20	3,309.18
Brampton R.P.D.—Chinguacousy and Toronto twps.	41,211.44	185.6	716.15	1,554.10	1,888.38
Brant R.P.D.—Blenheim, Brantford, Burford, Dumfries S., Oakland, Onondaga and Tuscarora twps.	136,053.84	646.6	2,494.96	4,626.51	6,217.82
Brigden R.P.D.—Moore and Sombra twps.	20,289.03	45.1	174.02	567.66	931.67
Burford R.P.D.—Brantford, Burford, Oakland, Townsend and Windham twps.	46,246.12	189.3	730.43	959.42	2,119.78
Caledonia R.P.D.—Ancaster, Barton, Binbrook, Caistor, Glanford, Grimsby S., Oneida, Onondaga and Seneca twps.	92,506.00	395.7	1,526.84	1,879.40	4,152.21
Chatham R P.D.—Chatham, Dover, Harwich and Raleigh twps.	124,457.50	556.1	2,145.76	3,060.16	5.703.48
Chippawa R.P.D.—Bertie, Crowland and Willoughby twps.	23,550.38	135.0	520.91	459.81	1,079.40
Clinton R.P.D.—Goderich, Hay, Hullett, Stanley and Tuckersmith twps.	42,409.18	142.6	550.23	1,688.48	1,939.13
Delaware R.P.D.—Carodoc, Delaware, Ekfrid, Lobo, London, Southwold and Westminster twps.	94,948.28	388.8	1,500.21	1,977.47	4,184.36
Dorchester R.P.D.—Dorchester N., Dorchester S., London, Nissouri E., Nissouri W., Oxford N., Westminster and Yarmouth twps.	100,715.31	412.1	1,590.12	2,561.67	4,614.43
Dresden R.P.D.—Camden, Chatham and Dawn twps.	17,319.10	59.0	227.66	386.39	793.79
Drumbo R.P.D.—Blandford, Blenheim and Burford twps.	45,489.47	151.5	584.58	1,067.61	2,089.47
Dundas R.P.D.—Ancaster, Barton, Beverly, Flamboro E., Flamboro W., Glanford and Nelson twps.	167,355.26	799.8	3,086.09	3,467.70	7,631.06
Dunnville R.P.D.—Canborough, Dunn and Moulton twps.	11,104.44	50.9	196.41	446.11	508.82
Dutton R.P.D.—Aldborough and Dunwich twps.	41,829.64	154.2	594.99	1,306.72	1,916.61
Elmira R.P.D.—Peel, Pilkington and Woolwich twps.	24,896.58	96.5	372.36	433.46	1,140.84

SYSTEM *N—COST OF POWER*

Municipality as the Cost—under Power Commission Act—of Power supplied to from each Municipality, and the amount remaining to be credited supplied to it in the year ending October 31, 1937

costs and fixed charges				Revenue received in excess of cost of power sold to private companies (Credit)	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
2,620.37	994.60	3,928.60	3,227.49	714.87	38,365.73	38,365.73	see page 219
701.30	239.40	776.74	738.69	141.34	8,167.37	8,167.37	"
327.57	129.51	603.20	416.90	109.76	5,526.05	5,526.05	"
1,028.80	437.89	2,101.46	1,369.39	382.39	17,894.44	17,894.44	"
232.45	66.46	146.57	210.06	26.68	2,302.21	2,302.21	"
399.31	155.87	615.23	469.78	111.95	5,337.87	5,337.87	"
748.14	295.90	1,286.02	917.87	234.01	10,572.37	10,572.37	"
977.59	406.89	1,807.32	1,259.59	328.87	15,031.92	15,031.92	"
151.84	69.55	438.75	235.57	79.84	2,875.99	2,875.99	"
409.56	138.15	463.45	432.62	84.33	5,537.29	5,537.29	"
761.56	295.68	1,263.61	925.91	229.93	10,678.87	10,678.87	"
865.95	327.44	1,339.33	1,022.65	243.71	12,077.88	12,077.88	"
165.53	56.88	191.76	177.03	34.89	1,964.15	1,964.15	"
448.33	144.16	492.38	466.37	89.59	5,203.31	5,203.31	"
1,263.24	541.85	2,599.35	1,680.04	473.00	19,796.33	19,796.33	"
90.30	37.86	165.43	112.25	30.10	1,527.08	1,527.08	"
386.23	134.68	501.15	426.35	91.19	5,175.54	5,175.54	"
222.80	82.32	313.62	253.33	57.07	2,761.66	2,761.66	"

NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount received by the Commission or charged to each Municipality in respect of power

Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating		
			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
	$ c.		$ c.	$ c.	$ c.
Elora R.P.D.—Garafraxa W., Nichol, Peel and Pilkington twps.	35,200.94	130.4	503.16	750.30	1,612.00
Essex R.P.D.—Colchester N., Gosfield N., Gosfield S., Maidstone, Mersea, Rochester and Sandwich S. twps.	67,077.93	254.8	983.17	1,391.57	3,074.87
Exeter R.P.D.—Biddulph, Bosanquet, Fullerton, Hay, Hibbert, Stephen, Tuckersmith and Usborne twps.	106,991.82	347.8	1,342.02	2,433.42	4,952.03
Forest R.P.D.—Adelaide, Bosanquet, Plympton, Warwick and Williams W. twps.	20,020.95	56.4	217.62	497.73	923.75
Galt R.P.D.—Beverly, Dumfries N., Dumfries S., and Puslinch twps.	48,756.27	233.1	899.44	2,621.82	2,234.04
Georgetown R.P.D.—Chinguacousy, Erin and Esquesing twps.	47,911.90	182.6	704.58	974.07	2,194.46
Goderich R.P.D.—Ashfield, Colborne, Goderich and Wawonosh W. twps.	44,675.85	117.6	453.77	1,203.73	2,036.26
Grantham R.P.D.—Grantham and Niagara twps.	129,389.26	615.8	2,376.12	4,107.48	5,874.47
Guelph R.P.D.—Eramosa, Erin, Flamboro E., Garafraxa W., Guelph, Nassagaweya, Nichol and Puslinch twps.	121,577.86	526.6	2,031.93	2,626.36	5,566.92
Haldimand R.P.D.—Cayuga N., Cayuga S., Oneida, Rainham, Seneca, Townsend and Walpole twps.	84,762.70	282.2	1,088.89	1,830.53	3,883.80
Harriston R.P.D.—Howick and Minto twps.	6,193.14	19.6	75.63	161.50	284.12
Harrow R.P.D.—Colchester N., Colchester S., Gosfield S. and Malden twps.	155,536.51	533.9	2,060.10	3,334.88	7,128.82
Ingersoll R.P.D.—Dereham, Dorchester N., Downie, Nissouri E., Oxford N., Oxford W., Zorra E. and Zorra W. twps.	131,054.89	517.0	1,994.89	3,155.88	6,004.51
Jordan R.P.D.—Grantham, Louth, Pelham and Thorold twps.	80,651.64	388.3	1,498.30	1,634.53	3,603.59
Keswick R.P.D.—Georgina, Gwillimbury E. and Gwillimbury N. twps.	172,969.12	549.6	2,120.68	5,021.33	7,884.26
Kingsville R.P.D.—Gosfield N., Gosfield S., Mersea and Romney twps.	216,322.21	767.4	2,961.08	4,358.16	9,915.88
Listowel R.P.D.—Elma, Grey, Maryborough, Mornington, Peel, Wallace and Wellesley twps.	61,711.92	241.3	931.08	1,641.71	2,832.91
London R.P.D.—Delaware, Lobo, London, Nissouri W., and Westminster twps.	444,947.00	1,956.0	7,547.40	10,407.13	20,391.17

SYSTEM *N—COST OF POWER*

Municipality as the Cost—under Power Commission Act—of Power supplied to from each Municipality, and the amount remaining to be credited supplied to it in the year ending October 31, 1937

costs and fixed charges				Revenue received in excess of cost of power sold to private companies (Credit)	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
324.99	115.15	423.80	358.53	77.11	4,010.82	4,010.82	see page 219
590.79	224.25	828.10	683.31	150.69	7,625.37	7,625.37	"
1,077.32	342.32	1,130.36	1,106.34	205.69	12,178.12	12,178.12	"
211.55	66.03	183.30	207.17	33.36	2,273.79	2,273.79	"
368.13	156.32	757.58	491.94	137.85	7,391.42	7,391.42	"
434.67	152.99	593.45	487.59	107.99	5,433.82	5,433.82	"
480.97	153.40	382.20	457.32	69.55	5,098.10	5,098.10	"
996.22	395.27	2,001.34	1,293.31	364.17	16,680.04	16,680.04	"
1,004.00	406.45	1,711.45	1,230.96	311.43	14,266.64	14,266.64	"
835.85	261.99	917.15	866.81	166.89	9,518.13	9,518.13	"
62.05	20.15	63.70	63.50	11.59	719.06	719.06	"
1,462.61	517.90	1,735.17	1,589.55	315.74	17,513.29	17,513.29	"
1,158.41	429.16	1,680.26	1,332.52	305.75	15,449.88	15,449.88	"
593.57	247.35	1,261.98	792.36	229.64	9,402.04	9,402.04	"
1,610.76	532.45	1,786.19	1,761.82	325.03	20,392.46	20,392.46	"
1,993.95	718.94	2,494.05	2,208.65	453.83	24,196.88	24,196.88	"
546.12	204.32	784.22	628.92	142.70	7,426.58	7,426.58	"
3,615.22	1,473.70	6,357.00	4,506.34	1,156.75	53,141.21	53,141.21	see page 221

NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount received by the Commission or charged to each Municipality in respect of power

Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating		
			Cost of power pur-chased	Opera-ting, main-tenance and adminis-trative expenses	Interest
	$ c.		$ c.	$ c.	$ c.
Lucan R.P.D.—Biddulph, Blanshard, London, McGillivray and Stephen twps.	22,739.81	87.3	336.85	614.50	1,005.14
Lynden R.P.D.—Ancaster, Beverly, Brantford and Dumfries S. twps.	51,984.74	204.4	788.70	1,103.73	2,381.52
Markham R.P.D.—Markham, Pickering, Scarboro, Uxbridge and Whitchurch twps.	148,817.23	568.8	2,194.77	4,586.76	6,819.34
Merlin R.P.D.—Raleigh, Romney and Tilbury E. twps.	72,429.02	227.4	877.44	1,648.56	3,330.38
Milton R.P.D.—Esquesing, Nassagaweya, Nelson and Trafalgar twps.	45,317.31	183.0	706.12	1,664.12	2,079.45
Milverton R.P.D.—Ellice, Elma, Mornington and Wellesley twps.	30,003.36	114.6	442.19	701.50	1,374.84
Mitchell R.P.D.—Downie, Ellice, Elma, Fullarton, Hibbert, Logan and McKillop twps.	60,054.33	232.1	895.58	1,505.30	2,751.98
Newmarket R.P.D.—Georgina, Gwillimbury E., King, Scott, Uxbridge and Whitchurch twps.	80,007.90	304.3	1,174.17	2,073.39	3,674.93
Niagara R.P.D.—Niagara and Stamford twps.	103,543.95	594.1	2,292.39	2,927.40	4,583.14
Norwich R.P.D.—Burford, Dereham, Middleton, Norwich N., Norwich S., Oxford E. and Windham twps.	95,842.97	391.0	1,508.71	2,189.29	4,393.55
Oil Springs R.P.D.—Brooke, Dawn, Enniskillen and Euphemia twps.	14,615.25	47.0	181.36	435.60	669.74
Palmerston R.P.D.—Arthur, Maryborough, Minto, Peel and Wallace twps.	17,780.10	64.1	247.34	533.58	815.93
Petrolia R.P.D.—Enniskillen, Moore, Plympton and Sarnia twps.	10,574.76	36.5	140.84	257.94	484.62
Preston R.P.D.—Dumfries N., Guelph, Puslinch, Waterloo and Woolwich twps.	248,912.17	1,097.9	4,236.35	5,090.44	11,404.01
Ridgetown R.P.D.—Aldborough, Harwich, Howard and Orford twps., and Rondeau Park	104,072.97	339.3	1,309.22	2,711.03	4,729.01
St. Jacobs R.P.D.—Peel, Pilkington, Waterloo, Wellesley and Woolwich twps.	61,688.29	256.4	989.34	1,225.19	2,825.94
St. Marys R.P.D.—Blanshard, Downie, Fullarton, Nissouri E., Nissouri W. and Usborne twps.	82,464.58	301.3	1,162.58	2,193.75	3,771.42
St. Thomas R.P.D.—Dunwich, Southwold, Westminster and Yarmouth twps.	178,038.11	799.9	3,086.48	4,282.96	8,159.24

SYSTEM *N—COST OF POWER*

Municipality as the Cost—under Power Commission Act—of Power supplied to from each Municipality, and the amount remaining to be credited supplied to it in the year ending October 31, 1937

costs and fixed charges				Revenue received in excess of cost of power sold to private companies (Credit)	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
192.48	70.48	283.73	223.00	51.63	2,674.55	2,674.55	see page 221
464.00	162.37	664.30	528.57	120.88	5,972.31	5,972.31	"
1,227.85	461.52	1,848.60	1,515.06	336.38	18,317.52	18,317.52	"
726.79	241.81	739.05	744.65	134.48	8,174.20	8,174.20	"
394.26	136.64	594.75	461.09	108.22	5,928.21	5,928.21	"
268.99	101.67	372.45	305.46	67.77	3,499.33	3,499.33	"
534.17	205.13	754.33	611.17	137.26	7,120.40	7,120.40	"
665.62	253.31	988.97	816.69	179.96	9,467.12	9,467.12	"
613.52	282.95	1,930.84	998.32	351.35	13,277.21	13,277.21	"
828.18	315.26	1,270.75	973.82	231.24	11,248.32	11,248.32	"
143.59	50.89	152.74	149.63	27.80	1,755.75	1,755.75	"
165.85	58.72	208.32	181.65	37.91	2,173.48	2,173.48	"
99.82	35.50	118.62	108.04	21.59	1,223.79	1,223.79	"
2,021.14	831.45	3,568.17	2,519.85	649.30	29,022.11	29,022.11	"
1,005.74	338.42	1,102.73	1,055.84	200.66	12,051.33	12,051.33	"
524.76	203.43	833.30	625.90	151.64	7,076.22	7,076.22	"
747.70	291.50	979.23	839.16	178.19	9,807.15	9,807.15	"
1,419.58	588.28	2,599.67	1,801.52	473.05	21,464.68	21,464.68	"

NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount received by the Commission or charged to each Municipality in respect of power

Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating		
			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
	$ c.		$ c.	$ c.	$ c.
Saltfleet R.P.D.—Barton, Binbrook, Grimsby N., and Saltfleet twps.......	284,924.06	1,201.6	4,636.48	6,283.35	13,053.84
Sandwich R.P.D.—Anderdon, Colchester N., Maidstone, Sandwich E., Sandwich S. and Sandwich W. twps.......	262,994.25	1,076.3	4,152.99	5,256.66	12,053.46
Sarnia R.P.D.—Moore, Plympton and Sarnia twps......................	188,865.49	686.1	2,647.37	4,915.81	8,652.66
Scarboro R.P.D.—Pickering, Scarboro and York N. twps..................	131,831.84	504.5	1,946.66	2,381.98	6,039.93
Seaforth R.P.D.—Hibbert, Hullett, McKillop and Tuckersmith twps......	18,983.49	71.2	274.73	492.79	869.35
Simcoe R.P.D.—Charlotteville, Townsend, Walpole, Windham and Woodhouse twps......................	76,548.29	343.7	1,326.19	2,345.46	3,506.91
Stamford R.P.D.—Stamford and Thorold twps.........................	37,137.58	186.7	720.40	880.52	1,618.65
Stratford R.P.D.—Downie, Easthope N., Easthope S. and Ellice twps.......	47,572.45	218.9	844.65	1,199.12	2,179.75
Strathroy R.P.D.—Adelaide, Caradoc, Ekfrid, Lobo, Metcalfe and Williams E. twps.........................	36,792.84	137.5	530.56	1,339.20	1,680.29
Streetsville R.P.D.—Chinguacousy, Esquesing, Toronto and Trafalgar twps............................	91,639.19	368.1	1,420.35	2,502.29	4,198.46
Tavistock R.P.D.—Easthope N., Easthope S., Ellice and Zorra E. twps......	66,041.08	261.7	1,009.79	1,523.75	3,058.59
Thamesville R.P.D.—Camden, Chatham, Dawn, Euphemia, Harwich, Howard, Orford and Zone twps.......	36,759.18	144.0	555.64	878.47	1,684.33
Tilbury R.P.D.—Dover, Mersea, Rochester, Romney, Tilbury E., Tilbury N. and Tilbury W. twps.........	73,388.86	280.7	1,083.11	1,797.33	3,382.74
Tillsonburg R.P.D.—Bayham, Dereham, Dorchester S., Houghton, Malahide, Middleton, Norwich N., Norwich S. and Walsingham N. twps.....	119,556.41	473.8	1,828.20	2,747.01	5,484.71
Wallaceburg R.P.D.—Chatham, Dover and Sombra twps...............	74,540.82	277.6	1,071.14	1,914.34	3,416.34
Walsingham R.P.D.—Charlotteville, Houghton, Long Point Park Commission, Middleton, Walsingham N., Walsingham S. and Windham twps.......	124,112.07	408.4	1,575.85	2,276.90	5,544.05
Walton R.P.D.—Grey, Hullett, McKillop, Morris, Wawanosh E., and Wawanosh W. twps.................	42,376.06	128.1	494.29	1,027.48	1,939.35

SYSTEM *N—COST OF POWER*

Municipality as the Cost—under Power Commission Act—of Power supplied to from each Municipality, and the amount remaining to be credited supplied to it in the year ending October 31, 1937

costs and fixed charges				Revenue received in excess of cost of power sold to private companies (Credit)	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for deprecia-tion obsoles-cence	Provision for con-tingencies	Provision for stabiliza-tion of rates	Provision for sinking fund				
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
2,422.20	944.44	3,905.21	2,889.57	710.62	33,424.47	33,424.47	see page 221
2,189.10	884.97	3,497.97	2,671.26	636.52	30,069.89	30,069.89	"
1,726.53	647.88	2,229.83	1,925.73	405.75	22,340.06	22,340.06	"
1,086.24	399.34	1,639.62	1,341.84	298.36	14,537.25	14,537.25	"
172.09	61.62	231.40	193.26	42.11	2,253.13	2,253.13	"
612.98	242.01	1,117.02	774.33	203.26	9,721.64	9,721.64	"
248.06	109.72	606.78	354.75	110.41	4,428.47	4,428.47	"
367.57	156.10	711.42	480.80	129.45	5,809.96	5,809.96	"
335.03	118.86	446.88	373.57	81.32	4,743.07	4,743.07	"
798.17	309.62	1,196.32	931.10	217.69	11,138.62	11,138.62	"
587.80	223.38	850.53	678.91	154.77	7,777.98	7,777.98	"
321.11	122.65	468.00	373.88	85.16	4,318.92	4,318.92	"
658.52	244.67	912.27	751.68	166.00	8,664.32	8,664.32	"
1,056.25	390.01	1,539.85	1,217.00	280.20	13,982.83	13,982.83	"
674.51	248.41	902.20	759.70	164.17	8,822.47	8,822.47	"
1,179.56	380.51	1,327.30	1,236.82	241.52	13,279.47	13,279.47	"
432.59	135.68	416.32	434.03	75.76	4,803.98	4,803.98	"

NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount received by the Commission or charged to each Municipality in respect of power

Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating		
			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
	$ c.		$ c.	$ c.	$ c.
Waterdown R.P.D.—Flamboro E., Flamboro W. and Nelson twps..	278,293.07	1,228.0	4,738.35	6,165.32	12,750.37
Waterford R.P.D.—Townsend and Windham twps................	63,266.89	278.0	1,072.69	1,406.17	2,898.39
Watford R.P.D.—Adelaide, Metcalfe and Warwick twps........	13,320.31	39.1	150.87	348.08	611.08
Welland R.P.D.—Bertie, Crowland, Humberstone, Moulton, Pelham, Thorold, Wainfleet and Willoughby twps.............	273,164.33	1,426.0	5,502.36	7,780.73	12,491.44
Woodbridge R.P.D.—Albion, Chinguacousy, Etobicoke, King, Toronto, Toronto Gore, Vaughan and York N. twps..........	178,767.69	718.1	2,770.86	3,471.57	8,139.28
Woodstock R.P.D.—Blandford, Blenheim, Burford, Dereham, Oxford E., Oxford N., Oxford W., Zorra E. and Zorra W. twps.	161,125.00	705.2	2,721.08	3,918.04	7,300.93
Totals—Rural power districts....	8,365,028.62	34,063.8	131,438.22	203,433.84	381,938.77
Totals—Municipalities..........	141,590,005.39	685,199.1	2,643,901.96	2,631,865.14	6,489,836.77
Totals—Rural power districts....	8,365,028.62	34,063.8	131,438.22	203,433.84	381,938.77
Totals—Companies.............	48,412,253.82	269,993.5	1,041,794.06	1,033,142.10	2,215,020.62
Totals—Local distribution systems	1,395,969.69	4,988.4	19,248.18	85,803.16	64,739.42
	199,763,257.52				
Non-operating capital..........	665,495.76				
Grand totals.................	200,428,753.28	994,244.8	3,836,382.42	3,954,244.24	9,151,535.58

SYSTEM *N—COST OF POWER*

Municipality as the Cost—under Power Commission Act—of Power supplied to from each Municipality, and the amount remaining to be credited supplied to it in the year ending October 31, 1937

costs and fixed charges				Revenue received in excess of cost of power sold to private companies (Credit)	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$
2,277.60	896.92	3,991.00	2,817.30	726.22	32,910.64	32,910.64	see page 221
516.08	206.29	903.50	640.53	164.41	7,479.24	7,479.24	"
137.29	43.50	127.07	136.89	23.12	1,531.66	1,531.66	"
1,947.84	832.56	4,634.50	2,739.12	843.32	35,085.23	35,085.23	"
1,527.74	559.97	2,333.82	1,804.62	424.67	20,183.19	20,183.19	"
1,289.52	538.01	2,291.90	1,613.01	417.05	19,255.44	19,255.44	"
71,114.21	27,024.28	110,707.34	84,648.51	20,145.00	990,160.17	990,160.17	....
991,192.28	429,304.53	2,226,003.01	1,428,365.95	(403,103.31)	16,437,366.33	16,611,805.95	314,095.71 (139656.09)
71,114.21	27,024.28	110,707.34	84,648.51	(20,145.00)	990,160.17	990,160.17	....
307,188.65	142,045.03	....	509,134.48	417,428.67	5,665,753.61	5,665,753.61	....
11,994.35	5,487.25	689.65	12,445.88	5,819.64	206,227.53	206,227.53	....
1,381,489.49	603,861.09	2,337,400.00	2,034,594.82	....	23,299,507.64	23,473,947.26	314,095.71 (139656.09)

NIAGARA SYSTEM—

Statement showing the cost of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged (by annual adjustment) of the actual costs

Rural power district	Total capital cost of each district, Provincial Government grant received and applied there against, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding	Cost of operation maintenance and administration
	Total capital cost	Government grant	Commission's investment		
	$ c.	$ c.	$ c.	$ c.	$ c.
Acton R.P.D.	20,395.87	10,197.93	10,197.94	442.01	416.64
Ailsa Craig R.P.D.	10,483.77	5,241.88	5,241.89	282.60	435.30
Alvinston R.P.D.	10,593.47	5,296.74	5,296.73	331.94	265.73
Amherstburg R.P.D.	180,944.55	90,386.78	90,557.77	21,517.72	5,180.40
Aylmer R.P.D.	*284,078.72	139,626.84	144,451.88	12,291.69	6,114.40
Ayr R.P.D.	*52,263.33	25,962.83	26,300.50	1,469.81	1,395.16
Baden R.P.D.	*226,333.99	112,445.25	113,888.74	13,556.36	9,092.05
Beamsville R.P.D.	429,563.10	208,824.97	220,738.13	36,957.80	15,258.35
Belle River R.P.D.	107,367.20	53,683.60	53,683.60	7,846.62	3,530.20
Blenheim R.P.D.	*142,205.09	69,805.02	72,400.07	5,134.30	4,768.57
Bond Lake R.P.D.	414,636.51	207,318.25	207,318.26	38,365.73	19,279.50
Bothwell R.P.D.	*95,819.24	47,245.58	48,573.66	8,167.37	1,580.71
Brampton R.P.D.	113,834.97	56,917.48	56,917.49	5,526.05	3,800.46
Brant R.P.D.	*317,711.15	157,641.51	160,069.64	17,894.44	9,295.05
Brigden R.P.D.	61,137.27	30,568.63	30,568.64	2,302.21	1,062.98
Burford R.P.D.	129,547.64	64,773.82	64,773.82	5,337.87	2,338.19
Caledonia R.P.D.	274,801.68	137,154.91	137,646.77	10,572.37	9,834.01
Chatham R.P.D.	347,781.20	173,589.42	174,191.78	15,031.92	10,283.24
Chippawa R.P.D.	72,572.60	36,283.43	36,289.17	2,875.99	2,616.68
Clinton R.P.D.	143,205.28	70,526.28	72,679.00	5,537.29	3,738.61
Delaware R.P.D.	*254,915.17	126,492.37	128,422.80	10,678.87	5,786.54
Dorchester R.P.D.	*245,073.79	121,327.91	123,745.88	12,077.88	8,214.27
Dresden R.P.D.	72,423.27	36,211.63	36,211.64	1,964.15	1,484.70
Drumbo R.P.D.	*135,410.63	66,871.99	68,538.64	5,203.31	3,587.42
Dundas R.P.D.	315,221.92	154,150.67	161,071.25	19,796.33	11,672.97
Dunnville R.P.D.	64,614.55	32,307.27	32,307.28	1,527.08	1,998.34
Dutton R.P.D.	*95,650.91	47,573.31	48,077.60	5,175.54	2,989.41
Elmira R.P.D.	39,170.32	19,585.16	19,585.16	2,761.66	1,823.93
Elora R.P.D.	109,297.09	54,404.49	54,892.60	4,010.82	3,051.21
Essex R.P.D.	*173,370.40	85,768.88	87,601.52	7,625.37	4,124.82
Exeter R.P.D.	*174,703.46	86,324.50	88,378.96	12,178.12	8,229.75
Forest R.P.D.	*94,761.37	46,446.83	48,314.54	2,273.79	2,564.23
Galt R.P.D.	99,623.34	49,811.67	49,811.67	7,391.42	4,421.77
Georgetown R.P.D.	122,552.48	61,276.24	61,276.24	5,433.82	3,714.89
Goderich R.P.D.	86,458.92	42,949.98	43,508.94	5,098.10	2,111.73
Grantham R.P.D.	155,128.95	75,184.48	79,944.47	16,680.04	9,058.95
Guelph R.P.D.	238,285.62	119,116.37	119,169.25	14,266.64	5,961.57
Haldimand R.P.D.	*188,350.91	91,771.74	96,579.17	9,518.13	4,712.81
Harriston R.P.D.	*36,734.36	17,900.26	18,834.10	719.06	1,003.84
Harrow R.P.D.	161,009.02	80,504.51	80,504.51	17,513.29	5,231.26
Ingersoll R.P.D.	335,694.92	167,847.46	167,847.46	15,449.88	9,427.43
Jordan R.P.D.	119,204.50	59,398.82	59,805.68	9,402.04	4,374.29
Keswick R.P.D.	204,770.33	99,808.48	104,961.85	20,392.46	8,641.27
Kingsville R.P.D.	*352,186.37	173,653.80	178,532.57	24,196.88	12,552.02
Listowel R.P.D.	129,603.50	64,801.75	64,801.75	7,426.58	5,038.84

Note—Items marked * include portions of transmission lines aggregating $55,416.91 used for purposes of rural power districts.

RURAL POWER DISTRICTS *N.—RURAL OPERATING*

District, the revenue collected from (or charged to) customers within each District, to the Municipalities comprising certain other Districts upon ascertainment in the year ending October 31, 1937

Interest	Provision for depreciation and obsolescence	Sinking fund	Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
					Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
456.94	199.63	105.11	1,620.33	1,689.31	68.98	....
232.57	101.61	53.50	1,105.58	821.69	....	283.89
230.17	100.56	52.94	981.34	610.10	....	371.24
3,711.43	1,619.80	853.72	32,883.07	37,991.07	5,108.00	....
5,796.78	2,484.33	1,333.41	28,020.61	32,827.84	4,807.23	....
1,148.18	498.26	264.11	4,775.52	4,363.18	....	412.34
5,062.92	2,197.53	1,164.60	31,073.46	24,237.10	....	6,836.36
9,715.04	4,061.32	2,234.71	68,227.22	78,828.02	10,600.80	....
2,224.27	971.77	511.64	15,084.50	18,057.10	2,972.60	....
3,007.43	1,287.98	691.78	14,890.06	17,290.62	2,400.56	....
9,184.45	4,012.65	2,112.66	72,954.99	76,349.72	3,394.73	....
1,760.63	755.93	404.99	12,669.63	16,741.52	4,071.89	....
2,189.23	956.46	503.58	12,975.78	10,180.48	....	2,795.30
6,586.81	2,853.47	1,515.14	38,144.91	34,725.11	....	3,419.80
1,316.98	575.38	302.94	5,560.49	4,791.00	....	769.49
2,630.72	1,149.35	605.13	12,061.26	13,066.12	1,004.86	....
5,685.16	2,478.91	1,307.73	29,878.18	28,158.62	....	1,719.56
7,138.09	3,112.58	1,641.94	37,207.77	41,557.89	4,350.12	....
1,608.74	702.79	370.05	8,174.25	8,924.51	750.26	....
3,191.92	1,373.13	734.22	14,575.17	14,644.25	69.08	....
5,788.55	2,509.69	1,331.52	26,095.17	29,491.62	3,396.45	....
5,439.72	2,352.41	1,251.27	29,335.55	29,400.14	64.59	....
1,088.42	475.52	250.36	5,263.15	4,964.18	....	298.97
2,883.81	1,243.26	663.35	13,581.15	11,973.64	....	1,607.51
7,027.16	2,936.93	1,616.42	43,049.81	41,521.01	....	1,528.80
1,295.14	565.84	297.91	5,684.31	4,497.78	....	1,186.53
2,038.01	885.35	468.79	11,557.10	10,242.93	....	1,314.17
881.45	385.10	202.76	6,054.90	5,585.68	....	469.22
2,378.15	1,034.32	547.03	11,021.53	10,888.90	....	132.63
3,722.66	1,608.09	856.31	17,937.25	20,756.01	2,818.76	....
3,895.02	1,681.17	895.95	26,880.01	27,828.02	948.01	....
1,962.68	838.81	451.47	8,090.98	8,458.61	367.63	....
2,125.31	928.54	488.88	15,355.92	12,835.26	....	2,520.66
2,681.95	1,171.73	616.92	13,619.31	12,212.54	....	1,406.77
1,912.56	830.00	439.93	10,392.32	9,034.92	....	1,357.40
3,602.60	1,478.76	828.69	31,649.04	33,774.01	2,124.97	....
5,050.30	2,205.92	1,161.70	28,646.13	28,030.65	....	615.48
3,994.98	1,697.30	918.95	20,842.17	20,085.76	....	756.41
835.96	355.89	192.29	3,107.04	2,345.57	....	761.47
3,458.81	1,511.14	795.61	28,510.11	30,363.93	1,853.82	....
7,373.11	3,221.28	1,696.00	37,167.70	33,885.87	....	3,281.83
2,650.07	1,153.74	609.58	18,189.72	18,240.46	50.74	....
4,635.27	1,973.58	1,066.24	36,708.82	36,728.86	20.04	....
7,544.19	3,247.24	1,735.35	49,275.68	56,350.78	7,075.10	....
2,913.27	1,272.80	670.13	17,321.62	15,222.82	....	2,098.80

Note—For townships included in rural power districts see "Cost of power" statement preceding.

NIAGARA SYSTEM—

Statement showing the cost of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged (by annual adjustment) of the actual costs

Rural power district	Total capital cost of each district, Provincial Government grant received and applied there against, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding	Cost of operation maintenance and administration
	Total capital cost	Government grant	Commission's investment		
	$ c.	$ c.	$ c.	$ c.	$ c.
London R.P.D.	*526,617.57	262,661.44	263,956.13	53,141.21	24,319.31
Lucan R.P.D.	*98,467.23	48,766.69	49,700.54	2,674.55	1,924.32
Lynden R.P.D.	131,068.62	65,050.76	66,017.86	5,972.31	3,635.44
Markham R.P.D.	*304,109.08	151,963.41	152,145.67	18,317.52	9,402.22
Merlin R.P.D.	174,062.57	87,031.28	87,031.29	8,174.20	3,218.53
Milton R.P.D.	146,959.15	73,479.58	73,479.57	5,928.21	3,836.92
Milverton R.P.D.	88,259.45	44,129.73	44,129.72	3,499.33	2,838.42
Mitchell R.P.D.	134,912.82	67,456.41	67,456.41	7,120.40	4,486.20
Newmarket R.P.D.	162,307.82	81,153.91	81,153.91	9,467.12	5,525.67
Niagara R.P.D.	*147,105.87	73,211.00	73,894.87	13,277.21	5,479.98
Norwich R.P.D.	*247,620.19	121,190.59	126,429.60	11,248.32	7,786.67
Oil Springs R.P.D.	34,367.10	17,183.55	17,183.55	1,755.75	1,443.81
Palmerston R.P.D.	*81,549.28	40,050.22	41,499.06	2,173.48	2,782.47
Petrolia R.P.D.	*41,104.95	19,999.11	21,105.84	1,223.79	1,239.72
Preston R.P.D.	*389,023.26	193,168.03	195,855.23	29,022.11	17,273.45
Ridgetown R.P.D.	228,900.02	114,450.01	114,450.01	12,051.33	6,800.24
St. Jacobs R.P.D.	125,243.33	62,335.93	62,907.40	7,076.22	4,630.88
St. Marys R.P.D.	241,476.37	120,738.18	120,738.19	9,807.15	5,143.00
St. Thomas R.P.D.	381,399.18	189,425.03	191,974.15	21,464.68	11,817.97
Saltfleet R.P.D.	364,715.11	179,511.07	185,204.04	33,424.47	15,510.72
Sandwich R.P.D.	374,049.66	187,019.92	187,029.74	30,069.89	18,027.03
Sarnia R.P.D.	*267,277.35	131,497.80	135,779.55	22,340.06	9,797.08
Scarboro R.P.D.	256,378.09	128,189.05	128,189.04	14,537.25	7,859.76
Seaforth R.P.D.	32,133.77	15,448.94	16,684.83	2,253.13	1,871.10
Simcoe R.P.D.	185,101.83	92,380.63	92,721.20	9,721.64	5,959.06
Stamford R.P.D.	43,172.28	21,586.14	21,586.14	4,428.47	3,583.36
Stratford R.P.D.	70,756.27	35,117.28	35,638.99	5,809.96	3,034.86
Strathroy R.P.D.	151,633.18	75,639.82	75,993.36	4,743.07	2,524.05
Streetsville R.P.D.	216,412.17	108,206.09	108,206.08	11,138.62	5,796.07
Tavistock R.P.D.	176,140.50	88,049.67	88,090.83	7,777.98	4,431.90
Thamesville R.P.D.	135,622.08	67,559.55	68,062.53	4,318.92	2,717.87
Tilbury R.P.D.	*182,015.86	89,534.27	92,481.59	8,664.32	3,762.65
Tillsonburg R.P.D.	270,846.10	135,423.05	135,423.05	13,982.83	8,111.65
Wallaceburg R.P.D.	224,478.10	111,855.08	112,623.02	8,822.47	6,615.78
Walsingham R.P.D.	352,583.87	176,291.94	176,291.93	13,279.47	9,440.21
Walton R.P.D.	*109,814.77	52,608.95	57,205.82	4,803.98	3,648.38
Waterdown R.P.D.	279,679.83	129,486.76	150,193.07	32,910.64	11,439.08
Waterford R.P.D.	160,946.34	80,473.17	80,473.17	7,479.24	4,252.11
Watford R.P.D.	24,479.85	12,239.93	12,239.92	1,531.66	826.22
Welland R.P.D.	729,694.93	360,449.75	369,245.18	35,085.23	25,264.74
Woodbridge R.P.D.	*438,224.07	218,085.74	220,138.33	20,183.19	8,488.45
Woodstock R.P.D.	279,193.65	139,596.82	139,596.83	19,255.44	8,336.42
Total capital	16,449,396.25	8,154,678.00	8,294,718.25		
Non-operating capital	110,207.01	54,511.84	55,695.17		
Grand Totals	16,559,603.26	8,209,189.84	8,350,413.42	990,160.17	536,948.26

Note—Items marked *include portions of transmission lines aggregating $55,416.91 used for purposes of rural power districts.

District, the revenue collected from (or charged to) customers within each District, to the Municipalities comprising certain other Districts upon ascertainment in the year ending October 31, 1937

Interest	Provision for depreciation and obsolescence	Sinking fund	Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
					Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
11,728.53	5,111.21	2,697.86	96,998.12	107,223.54	10,225.42	....
1,843.15	795.93	423.97	7,661.92	6,611.38	....	1,050.54
2,876.67	1,247.27	661.71	14,393.40	12,924.89	....	1,468.51
6,630.75	2,895.12	1,525.24	38,770.85	42,444.17	3,673.32	....
3,678.21	1,606.99	846.08	17,524.01	17,521.98	....	2.03
3,241.88	1,416.36	745.71	15,169.08	15,691.57	522.49	....
1,905.42	832.47	438.30	9,513.94	8,450.27	....	1,063.67
2,874.50	1,255.86	661.21	16,398.17	16,017.95	....	380.22
3,538.44	1,545.93	813.93	20,891.09	21,613.21	722.12	....
3,241.80	1,409.49	745.70	24,154.18	27,567.06	3,412.88	....
5,492.12	2,347.08	1,263.33	28,137.52	26,652.53	....	1,484.99
716.69	313.12	164.86	4,394.23	4,937.49	543.26	....
1,555.34	667.44	357.76	7,536.49	4,586.27	....	2,950.22
832.62	352.70	191.53	3,840.36	4,148.62	308.26	....
8,753.12	3,797.32	2,013.44	60,859.44	57,455.76	....	3,403.68
5,016.22	2,191.57	1,153.86	27,213.22	28,356.67	1,143.45	....
2,753.14	1,197.12	633.30	16,290.66	16,355.33	64.67	....
5,189.59	2,267.31	1,193.74	23,600.79	20,844.98	....	2,755.81
8,242.85	3,577.27	1,896.07	46,998.84	46,245.72	....	753.12
8,016.44	3,393.46	1,843.99	62,189.08	70,832.99	8,643.91	....
8,263.70	3,610.29	1,900.86	61,871.77	75,200.17	13,328.40	....
5,785.20	2,484.71	1,330.75	41,737.80	48,409.09	6,671.29	....
5,576.99	2,436.56	1,282.85	31,693.41	40,120.94	8,427.53	....
759.95	319.66	174.80	5,378.64	4,662.87	....	715.77
3,887.33	1,694.96	894.19	22,157.18	23,145.55	988.37	....
956.19	417.76	219.95	9,605.73	12,366.07	2,760.34	....
1,602.66	694.98	368.65	11,511.11	11,994.94	483.83	....
2,897.63	1,262.43	666.52	12,093.70	11,501.09	....	592.61
4,782.51	2,089.46	1,100.10	24,906.76	24,441.11	....	465.65
3,688.21	1,610.95	848.38	18,357.42	16,970.47	....	1,386.95
2,866.78	1,247.45	659.43	11,810.45	13,338.59	1,528.14	....
3,816.59	1,637.98	877.92	18,759.46	20,704.84	1,945.38	....
5,907.57	2,580.99	1,358.89	31,941.93	30,294.50	....	1,647.43
4,454.17	1,938.33	1,024.58	22,855.33	23,088.19	232.86	....
6,982.26	3,050.52	1,606.10	34,358.56	36,566.48	2,207.92	....
2,336.63	974.90	537.48	12,301.37	12,135.15	....	166.22
6,097.41	2,252.88	1,402.56	54,102.57	58,095.10	3,992.53	....
3,454.01	1,509.04	794.51	17,488.91	17,873.47	384.56	....
556.93	243.32	128.11	3,286.24	2,666.12	....	620.12
16,535.50	7,088.51	3,803.60	87,777.58	107,555.35	19,777.77	....
9,702.76	4,218.57	2,231.88	44,824.85	51,465.91	6,641.06	....
6,039.79	2,638.76	1,389.31	37,659.72	38,177.72	518.00	....
....	....	....	....	....	....	....
....	....	....	....	....	....	....
355,135.86	153,281.88	81,690.32	2,117,216.49	2,217,831.30	157,466.98	56,852.17

Note—For townships included in rural power districts see "Cost of power" statement preceding.

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1937, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1936		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Acton	Jan. 1913	1,289.13			1,289.13
Agincourt	Nov. 1922	444.79			444.79
Ailsa Craig	Jan. 1916	374.30			374.30
Alvinston	April 1922	402.08			402.08
Amherstburg	Nov. 1925	2,745.11			2,745.11
Ancaster twp.	May 1923	164.30			164.30
Arkona	Dec. 1926	16.59			16.59
Aylmer	Mar. 1918	1,304.63			1,304.63
Ayr	Jan. 1915	384.45			384.45
Baden	May 1912	488.65			488.65
Beachville	Aug. 1912	540.86			540.86
Beamsville	May 1937				
Belle River	Dec. 1922	439.71			439.71
Blenheim	Nov. 1915	908.75			908.75
Blyth	July 1924	464.55			464.55
Bolton	Feb. 1915	500.76			500.76
Bothwell	Sept. 1915	149.95			149.95
Brampton	Nov. 1911	4,426.64			4,426.64
Brantford	Feb. 1914	135.04			135.04
Brantford twp.	May 1924	827.24			827.24
Bridgeport	Mar. 1928	365.61			365.61
Brigden	Jan. 1918	266.21			266.21
Brussels	July 1924	532.60			532.60
Burford	June 1915	207.58			207.58
Burgessville	Nov. 1916	119.17			119.17
Caledonia	Oct. 1912	822.31			822.31
Campbellville	Jan. 1925	101.33			101.33
Cayuga	Nov. 1924	206.65			206.65
Chatham	Feb. 1915	5,768.64			5,768.64
Chippawa	Sept. 1919	132.62		3.95	136.57
Clifford	May 1924	373.39			373.39
Clinton	Mar. 1914	890.34			890.34
Comber	May 1915	406.70			406.70
Cottam	Nov. 1926	217.22			217.22
Courtright	Dec. 1923		68.08	68.08	
Dashwood	Sept. 1917	491.78			491.78
Delaware	Mar. 1915	182.93		1.44	184.37
Dorchester	Dec. 1914	358.64			358.64
Drayton	Mar. 1918	427.38			427.38
Dresden	April 1915	793.60			793.60
Drumbo	Dec. 1914	159.21			159.21
Dublin	Oct. 1917		589.72	655.73	66.01
Dundas	Jan. 1911	2,397.52			2,397.52
Dunnville	June 1918	966.15			966.15
Dutton	Sept. 1915	600.34			600.34

SYSTEM *N.—CREDIT OR CHARGE*

supplied to it to October 31, 1936, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1937

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1937		Accumulated amount standing as a credit or charge on October 31, 1937	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
24.58		440.23		464.81	
7.41		564.98		572.39	
8.49		608.25		616.74	
8.24		688.60		696.84	
56.91		3,013.16		3,070.07	
2.88		192.56		195.44	
0.36		256.62		256.98	
21.59		1,415.44		1,437.03	
6.70		431.51		438.21	
9.53		468.97		478.50	
11.85		1,020.45		1,032.30	
8.57		605.50		614.07	
18.03		1,362.07		1,380.10	
9.70		642.63		652.33	
9.60		760.61		770.21	
2.97		668.74		671.71	
74.22		6,091.87		6,166.09	
2.68			425.72		423.04
13.60		1,017.68		1,031.28	
7.69		304.53		312.22	
4.43		375.78		380.21	
10.91		712.77		723.68	
4.55		445.76		450.31	
1.98		33.69		35.67	
15.50		713.67		729.17	
1.73		168.39		170.12	
3.44		565.99		569.43	
99.25		7,593.46		7,692.71	
2.91		419.38		422.29	
7.42		367.74		375.16	
14.83		433.03		447.86	
7.67		672.76		680.43	
4.09		195.22		199.31	
	1.17	157.88		156.71	
8.89		523.92		532.81	
3.74		352.71		356.45	
7.25		393.27		400.52	
8.76		456.34		465.10	
13.31		1,594.91		1,608.22	
2.67		296.04		298.71	
	19.72	114.68		94.96	
45.45		2,007.27		2,052.72	
18.53		2,907.80		2,926.33	
9.93		673.13		683.06	

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1937, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1936		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Elmira	Nov. 1913	2,802.12			2,802.12
Elora	Nov. 1914	294.18			294.18
Embro	Jan. 1915	608.92			608.92
Erieau	July 1924	424.30			424.30
Erie Beach	July 1925	102.10			102.10
Essex	Nov. 1923	792.22			792.22
Etobicoke twp	Aug. 1917	4,131.70			4,131.70
Exeter	June 1916	1,124.38			1,124.38
Fergus	Nov. 1914	3,477.26			3,477.26
Fonthill	June 1926	215.96			215.96
Forest	Mar. 1917	600.20			600.20
Galt	May 1911		2,045.26	2,045.26	
Georgetown	Sept. 1913	2,622.52			2,622.52
Glencoe	Aug. 1920	920.20			920.20
Goderich	Feb. 1914	2,778.06			2,778.06
Granton	July 1916	473.81			473.81
Guelph	Dec. 1910	9,207.45			9,207.45
Hagersville	Sept. 1913	549.09			549.09
Hamilton	Feb. 1911	20,322.72			20,322.72
Harriston	July 1916	1,002.42			1,002.42
Harrow	Nov. 1923	1,260.74			1,260.74
Hensall	Jan. 1917	725.09			725.09
Hespeler	Feb. 1911	2,742.84			2,742.84
Highgate	Dec. 1916	216.80			216.80
Humberstone	Oct. 1924	511.27			511.27
Ingersoll	May 1911		4,616.74	2,616.74	
Jarvis	Feb. 1924	70.45		1.32	71.77
Kingsville	Nov. 1923	1,338.20			1,338.20
Kitchener	Jan. 1911	4,712.07			4,712.07
Lambeth	April 1915	102.07			102.07
LaSalle	Nov. 1925	425.30		1.53	426.83
Leamington	Nov. 1923	2,848.91			2,848.91
Listowel	June 1916	2,229.68			2,229.68
London	Jan. 1916	34,818.84			34,818.84
London Railway Commission	Aug. 1914		4,332.98	4,332.98	
London twp	Jan. 1925	1,402.82			1,402.82
Long Branch	Jan. 1931	1,301.21			1,301.21
Lucan	Feb. 1915	363.25			363.25
Lynden	Nov. 1915	328.40			328.40
Markham	April 1920	654.62			654.62
Merlin	Dec. 1922	603.21			603.21
Merritton	Nov. 1920	4,382.84			4,382.84
Milton	April 1913	1,361.34			1,361.34
Milverton	June 1916	286.02			286.02
Mimico	May 1912	522.94			522.94

SYSTEM *N.—CREDIT OR CHARGE*

supplied to it to October 31, 1936, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1937

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1937		Accumulated amount standing as a credit or charge on October 31, 1937	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
50.22		2,421.56		2,471.78	
4.80		569.00		573.80	
11.60		820.71		832.31	
8.99		742.20		751.19	
2.08		272.91		274.99	
17.28		1,185.33		1,202.61	
81.95		3,734.13		3,816.08	
18.61		1,165.89		1,184.50	
60.75		3,987.46		4,048.21	
3.60		375.12		378.72	
9.80		1,422.66		1,432.46	
	34.34		4,211.15		4,245.49
42.82		3,365.66		3,408.48	
18.61		1,602.80		1,621.41	
47.49		2,201.38		2,248.87	
8.62		452.55		461.17	
182.64		7,045.80		7,228.44	
11.97		1,090.93		1,102.90	
331.84			25,175.82		24,843.98
19.90		846.41		866.31	
22.14		1,697.45		1,719.59	
16.41		877.15		893.56	
51.70		2,138.03		2,189.73	
4.28		327.64		331.92	
8.52		326.45		334.97	
	119.03	512.00			1,607.03
1.47		563.07		564.54	
24.93		1,911.80		1,936.73	
102.76		3,180.13		3,282.89	
2.08		408.71		410.79	
8.11		325.74		333.85	
48.08		3,979.79		4,027.87	
36.65		2,793.04		2,829.69	
675.39		15,581.25		16,256.64	
	109.69				109.69
23.85		1,444.18		1,468.03	
21.67		1,025.98		1,047.65	
7.21		351.82		359.03	
7.52		397.98		405.50	
13.34		557.89		571.23	
12.59		317.56		330.15	
82.61		1,687.16		1,769.77	
22.23		2,801.59		2,823.82	
4.83		603.64		608.47	
10.32			480.42		470.10

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1937, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1936		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Mitchell	Sept. 1911	760.01	....	....	760.01
Moorefield	Mar. 1918	316.44	....	....	316.44
Mount Brydges	Mar. 1915	300.34	....	....	300.34
Newbury	Mar. 1921	198.53	....	....	198.53
New Hamburg	Mar. 1911	1,219.97	....	....	1,219.97
New Toronto	Feb. 1914	10,987.52	....	....	10,987.52
Niagara Falls	Dec. 1915	....	21,113.05	21,212.27	99.22
Niagara-on-the-Lake	Aug. 1919	840.24	....	....	840.24
Norwich	May 1912	564.31	....	....	564.31
Oil Springs	Feb. 1918	679.87	....	....	679.87
Otterville	Feb. 1916	419.85	....	....	419.85
Palmerston	July 1916	1,033.32	....	....	1,033.32
Paris	Feb. 1914	428.04	....	....	428.04
Parkhill	May 1920	778.53	....	....	778.53
Petrolia	May 1916	2,835.02	....	....	2,835.02
Plattsville	Dec. 1914	242.94	....	....	242.94
Point Edward	Nov. 1916	3,630.78	....	....	3,630.78
Port Colborne	Mar. 1920	2,158.28	....	....	2,158.28
Port Credit	Aug. 1912	1,238.28	....	....	1,238.28
Port Dalhousie	Nov. 1912	1,260.32	....	....	1,260.32
Port Dover	Dec. 1921	823.65	....	....	823.65
Port Rowan	Nov. 1926	542.46	....	....	542.46
Port Stanley	April 1912	1,163.99	....	....	1,163.99
Preston	Jan. 1911	....	179.51	179.51	....
Princeton	Jan. 1915	318.42	....	....	318.42
Queenston	Mar. 1921	99.13	....	....	99.13
Richmond Hill	June 1925	678.04	....	....	678.04
Ridgetown	Dec. 1915	663.43	....	....	663.43
Riverside	Nov. 1922	836.28	....	....	836.28
Rockwood	Sept. 1913	4.62	....	....	4.62
Rodney	Feb. 1917	33.07	....	....	33.07
St. Catharines	April 1914	1,372.21	....	109.88	1,482.09
St. Clair	Nov. 1922	69.96	....	....	69.96
St. George	Sept. 1915	605.32	....	....	605.32
St. Jacobs	Sept. 1917	694.43	....	....	694.43
St. Marys	May 1911	3,235.45	....	....	3,235.45
St. Thomas	April 1911	7,562.83	....	....	7,562.83
Sarnia	Dec. 1916	10,170.49	....	....	10,170.49
Scarboro twp.	Aug. 1918	6,597.35	....	....	6,597.35
Seaforth	Nov. 1911	820.80	....	....	820.80
Simcoe	Aug. 1915	2,838.95	....	....	2,838.95
Springfield	Aug. 1917	121.71	....	....	121.71
Stamford twp.	Nov. 1916	....	7,715.55	2,613.13	....
Stouffville	Sept. 1923	501.41	....	....	501.41
Stratford	Jan. 1911	9,088.09	....	....	9,088.09

SYSTEM *N.—CREDIT OR CHARGE*

supplied to it to October 31, 1936, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1937

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1937		Accumulated amount standing as a credit or charge on October 31, 1937	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
14.58		690.48		705.06	
6.28		183.38		189.66	
4.97		429.43		434.40	
3.33		378.72		382.05	
20.91		1,417.71		1,438.62	
179.41		10,160.21		10,339.62	
	370.21		5,907.22		6,277.43
14.33			50.57		36.24
9.40		761.20		770.60	
13.34		807.58		820.92	
8.68		434.60		443.28	
13.70		1,256.61		1,270.31	
6.99		493.91		500.90	
13.76		1,034.02		1,047.78	
47.85		2,672.16		2,720.01	
3.99		445.41		449.40	
63.09		3,025.63		3,088.72	
35.95		1,696.04		1,731.99	
20.76		1,785.36		1,806.12	
21.52		1,289.12		1,310.64	
13.76		1,546.05		1,559.81	
10.04		926.20		936.24	
21.53		1,390.58		1,412.11	
	3.62		1,350.56		1,354.18
6.32		499.90		506.22	
1.64		45.19		46.83	
14.79		699.35		714.14	
12.87		1,345.15		1,358.02	
16.59		576.55		593.14	
0.09		379.94		380.03	
0.64		339.17		339.81	
28.54			9,263.77		9,235.23
1.38		46.48		47.86	
11.88		826.35		838.23	
14.31		684.09		698.40	
64.18		4,131.56		4,195.74	
125.98		5,256.96		5,382.94	
171.64		6,929.08		7,100.72	
109.17		6,485.73		6,594.90	
13.58		272.89		286.47	
56.27		2,950.85		3,007.12	
2.67			66.84		64.17
	281.59		1,243.89		6,627.90
9.56		844.99		854.55	
172.30		7,710.05		7,882.35	

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1937, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1936		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Strathroy	Dec. 1914	3,088.04			3,088.04
Streetsville	Dec. 1934	487.92			487.92
Sutton	Aug. 1923	1,051.71			1,051.71
Swansea	Oct. 1937				
Tavistock	Nov. 1916	1,389.85			1,389.85
Tecumseh	Nov. 1922	62.95		100.00	162.95
Thamesford	Feb. 1914	643.25			643.25
Thamesville	Oct. 1915	730.83			730.83
Thedford	May 1922	355.53			355.53
Thorndale	Mar. 1914	184.02			184.02
Thorold	Jan. 1921	1,377.30		4.00	1,381.30
Tilbury	April 1915	1,096.16			1,096.16
Tillsonburg	Aug. 1911	1,277.81			1,277.81
Toronto	June 1911	39,500.53			39,500.53
Toronto twp	Aug. 1913	2,223.21			2,223.21
Trafalgar twp. Area 1	Nov. 1937				
Trafalgar twp. Area 2	Nov. 1937		3,597.20	3,597.20	
Wallaceburg	Feb. 1915	1,944.38			1,944.38
Wardsville	June 1921	231.71			231.71
Waterdown	Nov. 1911	507.31			507.31
Waterford	April 1915	687.22			687.22
Waterloo	Dec. 1910		730.70	730.70	
Watford	Sept. 1917	600.13			600.13
Welland	Sept. 1917		965.91	965.91	
Wellesley	Nov. 1916	410.49			410.49
West Lorne	Jan. 1917	20.49			20.49
Weston	Jan. 1911	3,157.66			3,157.66
Wheatley	Feb. 1924	522.22			522.22
Windsor	Oct. 1914	46,662.27			46,662.27
Woodbridge	Dec. 1914	1,241.01			1,241.01
Woodstock	Jan. 1911	862.36			862.36
Wyoming	Nov. 1916	146.32			146.32
York East twp	July 1925	4,269.76			4,269.76
York North twp	Nov. 1923	2,782.60		5.64	2,788.24
Zurich	Sept. 1917	572.25			572.25
Mimico Asylum	Sept. 1913	298.71			298.71
Ontario Reformatory	Sept. 1913	332.39			332.39
Prison Brick Yard			66.92	66.92	
Toronto Transportation Commission	Jan. 1927	2,113.14			2,113.14
Sandwich, Windsor & Amherstburg Railway					
Totals—Municipalities		348,020.18	46,021.62	39,312.19	348,413.17
*RURAL POWER DISTRICTS					
Acton R.P.D.	Feb. 1928		396.81		39.36

*For townships included in rural power districts see "Cost of Power" statement preceding.

SYSTEM *N.—CREDIT OR CHARGE*

supplied to it to October 31, 1936, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1937

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1937		Accumulated amount standing as a credit or charge on October 31, 1937	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
64.06		3,739.23		3,803.29	
10.10		532.10		542.20	
19.03		1,644.64		1,663.67	
		23.89		23.89	
27.27		1,378.79		1,406.06	
0.99			217.78		216.79
11.45		885.95		897.40	
14.36		1,040.18		1,054.54	
7.08		608.15		615.23	
3.65		475.95		479.60	
27.03		574.06		601.09	
18.74		1,821.60		1,840.34	
21.15		2,295.55		2,316.70	
753.22			89,470.61		88,717.39
45.10		999.18		1,044.28	
			779.83		779.83
			106.63		106.63
38.35		4,674.40		4,712.75	
4.71		429.25		433.96	
8.28		584.30		592.58	
13.33		773.64		786.97	
	12.17		905.28		917.45
11.64		1,296.47		1,308.11	
	16.09	4,584.48		4,568.39	
7.31		547.14		554.45	
0.37		87.84		88.21	
62.63		1,803.54		1,866.17	
10.64		1,068.58		1,079.22	
761.94		63,156.12		63,918.06	
21.47		1,656.28		1,677.75	
16.54		2,048.73		2,065.27	
3.21		354.17		357.38	
69.72		2,318.86		2,388.58	
46.28		3,471.44		3,517.72	
10.62		730.06		740.68	
5.66		386.57		392.23	
6.63		424.73		431.36	
	1.18	70.70		69.52	
45.08		1,832.81		1,877.89	
		13,085.11		13,085.11	
6,295.31	968.81	314,095.71	139,656.09	318,696.27	146,032.57
	16.27	68.98			383.46

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1937, and the accumulated amount standing

Rural power district*	Date commenced operating	Net credit or charge at October 31, 1936		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Ailsa Craig R.P.D.	Sept. 1930		397.01		
Alvinston R.P.D.	June 1929		744.00	17.80	
Amherstburg R.P.D.	Nov. 1923	40,333.95		228.98	
Aylmer R.P.D.	Nov. 1922	26,595.59		374.36	498.35
Ayr R.P.D.	July 1926		1,842.03	6.29	15.00
Baden R.P.D.	Sept. 1922		8,007.75	122.75	90.00
Beamsville R.P.D.	Jan. 1923	67,206.87			471.21
Belle River R.P.D.	Dec. 1922	41,123.46		455.00	125.51
Blenheim R.P.D.	July 1924	29,109.57		35.00	24.34
Bond Lake R.P.D.	Mar. 1924	69,053.31		10.87	75.00
Bothwell R.P.D.	Dec. 1923	7,702.89		83.12	
Brampton R.P.D.	Nov. 1923		5,992.65	15.00	23.78
Brant R.P.D.	Oct. 1922		7,115.31	80.00	88.49
Brigden R.P.D.	Jan. 1927		5,006.89	68.31	
Burford R.P.D.	Dec. 1926	1,855.01		50.14	105.00
Caledonia R.P.D.	Oct. 1925		1,336.09		716.74
Chatham R.P.D.	May 1922	23,398.10		219.43	200.00
Chippawa R.P.D.	July 1922	2,268.62			193.33
Clinton R.P.D.	July 1928		3,704.36	50.00	37.41
Delaware R.P.D.	Oct. 1922	7,158.94		30.00	71.81
Dorchester R.P.D.	Dec. 1921	4,278.13			97.03
Dresden R.P.D.	May 1928		560.28	24.50	50.00
Drumbo R.P.D.	Aug. 1922		2,898.35		85.66
Dundas R.P.D.	Jan. 1922	30,575.71		37.86	65.00
Dunnville R.P.D.	July 1928		6,383.97	5.00	70.23
Dutton R.P.D.	Feb. 1926		7,153.24	719.26	
Elmira R.P.D.	June 1926		2,783.91	116.08	
Elora R.P.D.	Jan. 1926		4,589.16		165.89
Essex R.P.D.	Nov. 1924	31,471.52		259.31	
Exeter R.P.D.	Nov. 1922	17,907.61		105.00	4.43
Forest R.P.D.	Nov. 1926	831.31		87.45	80.00
Galt R.P.D.	Oct. 1922		929.74	40.00	25.90
Georgetown R.P.D.	Nov. 1924		2,968.14	4.45	110.00
Goderich R.P.D.	June 1925		8,835.86	25.00	99.56
Grantham R.P.D.	Nov. 1924	436.43		512.57	415.00
Guelph R.P.D.	Jan. 1925		11,777.05	46.25	
Haldimand R.P.D.	Oct. 1925		9,304.84	36.03	40.00
Harriston R.P.D.	Dec. 1929		3,645.38	38.58	
Harrow R.P.D.	Nov. 1923	30,531.18		221.42	115.00
Ingersoll R.P.D.	Oct. 1922		11,530.21	29.37	156.71
Jordan R.P.D.	May 1922	9,480.11			204.57
Keswick R.P.D.	Mar. 1924		18,538.34	55.92	
Kingsville R.P.D.	Nov. 1923	52,934.44		761.94	
Listowel R.P.D.	Oct. 1926		5,401.59		119.27
London R.P.D.	Nov. 1922	22,057.74			224.00

*For townships included in rural power districts see "Cost of Power" statement preceding.

SYSTEM *N.—CREDIT OR CHARGE*

supplied to it to October 31, 1936, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1937

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1937		Accumulated amount standing as a credit or charge on October 31, 1937	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
...	15.88	...	283.89	...	696.78
...	29.56	...	371.24	...	1,127.00
1,614.36	...	5,108.00	...	47,285.29	...
1,047.23	...	4,807.23	...	32,326.06	...
...	74.28	...	412.34	...	2,337.36
...	323.91	...	6,836.36	...	15,135.27
2,674.67	...	10,600.80	...	80,011.13	...
1,663.14	...	2,972.60	...	46,088.69	...
1,165.78	...	2,400.56	...	32,686.57	...
2,759.13	...	3,394.73	...	75,143.04	...
309.72	...	4,071.89	...	12,167.62	...
...	239.11	...	2,795.30	...	9,035.84
...	281.41	...	3,419.80	...	10,825.01
...	198.68	...	769.49	...	5,906.75
70.00	...	1,004.86	...	2,875.01	...
...	69.64	...	1,719.56	...	3,842.03
927.92	...	4,350.12	...	28,695.57	...
86.74	...	750.26	...	2,912.29	...
...	146.17	69.08	...	...	3,768.86
287.56	...	3,396.45	...	10,801.14	...
167.93	...	64.59	...	4,413.62	...
...	24.41	...	298.97	...	909.16
...	119.13	...	1,607.51	...	4,710.65
1,220.43	...	...	1,528.80	30,240.20	...
...	255.16	...	1,186.53	...	7,890.89
...	262.33	...	1,314.17	...	8,010.48
...	110.56	...	469.22	...	3,247.61
...	185.57	...	132.63	...	5,073.25
1,262.26	...	2,818.76	...	35,811.85	...
720.50	...	948.01	...	19,676.69	...
30.05	...	367.63	...	1,236.44	...
...	35.59	...	2,520.66	...	3,471.89
...	123.13	...	1,406.77	...	4,603.59
...	352.43	...	1,357.40	...	10,620.25
0.86	...	2,124.97	...	2,659.83	...
...	470.28	...	615.48	...	12,816.56
...	373.79	...	756.41	...	10,439.01
...	145.42	...	761.47	...	4,513.69
1,216.65	...	1,853.82	...	33,708.07	...
...	467.11	...	3,281.83	...	15,406.49
376.00	...	50.74	...	9,702.28	...
...	741.13	20.04	...	...	19,203.51
2,143.38	...	7,075.10	...	62,914.86	...
...	216.86	...	2,098.80	...	7,836.52
878.91	...	10,225.42	...	32,938.07	...

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1937, and the accumulated amount standing

Rural power district*	Date commenced operating	Net credit or charge at October 31, 1936		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Lucan R.P.D.	June 1926		122.36		231.31
Lynden R.P.D.	Feb. 1922		3,889.09		72.11
Markham R.P.D.	Dec. 1922	50,353.10		25.00	31.38
Merlin R.P.D.	Nov. 1928		2,173.90	570.00	103.19
Milton R.P.D.	Jan. 1925	4,695.66			108.13
Milverton R.P.D.	Aug. 1927		7,066.87	3.38	50.00
Mitchell R.P.D.	Dec. 1925	1,986.95		23.84	50.00
Newmarket R.P.D.	Mar. 1924	8,578.19			41.35
Niagara R.P.D.	Jan. 1922	27,857.84		86.34	190.00
Norwich R.P.D.	May 1925	6,063.47		29.07	25.00
Oil Springs R.P.D.	Dec. 1925	4,861.50			29.81
Palmerston R.P.D.	Oct. 1926		8,530.26	111.36	
Petrolia R.P.D.	Aug. 1923		83.35		76.60
Preston R.P.D.	April 1922	10,922.63			123.70
Ridgetown R.P.D.	Mar. 1922	1,432.53		55.00	54.11
St. Jacobs R.P.D.	Nov. 1922		2,821.50		201.06
St. Marys R.P.D.	Dec. 1927		9,545.39	60.63	
St. Thomas R.P.D.	Aug. 1923	17,964.68			88.44
Saltfleet R.P.D.	Feb. 1922	24,897.57		163.77	160.00
Sandwich R.P.D.	July 1922	75,875.08		1,847.39	235.00
Sarnia R.P.D.	June 1923	28,643.25		202.53	
Scarboro R.P.D.	Dec. 1923	56,576.64			568.56
Seaforth R.P.D.	Nov. 1927		2,302.62	20.00	71.73
Simcoe R.P.D.	Nov. 1922	3,807.81			209.50
Stamford R.P.D.	Mar. 1922	10,635.54			241.17
Stratford R.P.D.	July 1924		1,411.62		
Strathroy R.P.D.	Dec. 1926		896.00		92.34
Streetsville R.P.D.	Nov. 1922	6,511.44		60.00	135.75
Tavistock R.P.D.	April 1923		3,194.05	49.32	
Thamesville R.P.D.	Nov. 1927	399.34		94.03	170.00
Tilbury R.P.D.	Dec. 1923	10,108.60		452.68	
Tillsonburg R.P.D.	Dec. 1923	3,078.15			49.81
Wallaceburg R.P.D.	Jan. 1923	11,753.26		550.93	290.00
Walsingham R.P.D.	Dec. 1926	10,382.28		41.31	115.00
Walton R.P.D.	Nov. 1924	1,223.08			66.44
Waterdown R.P.D.	Oct. 1922	55,321.39		183.44	155.00
Waterford R.P.D.	Nov. 1923	2,621.02		223.74	
Watford R.P.D.	Dec. 1929	102.58		2.93	
Welland R.P.D.	April 1922	51,161.64		175.00	384.64
Woodbridge R.P.D.	Jan. 1923	30,181.93			101.75
Woodstock R.P.D.	Feb. 1922	7,911.25		12.88	
Totals—Rural power districts		1,042,218.89	173,879.97	10,017.61	9,426.46
Totals—Municipalities		348,020.18	46,021.62	39,312.19	348,413.17
Grand totals		1,390,239.07	219,901.59	49,329.80	357,839.63

*For townships included in rural power districts see "Cost of Power" statement preceding.

SYSTEM *N.—CREDIT OR CHARGE*

supplied to it to October 31, 1936, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1937

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1937		Accumulated amount standing as a credit or charge on October 31, 1937	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
	10.09		1,050.54		1,414.30
	157.76		1,468.51		5,587.47
2,015.12		3,673.32		56,035.16	
	64.16		2.03		1,773.28
185.23		522.49		5,295.25	
	284.67		1,063.67		8,461.83
77.48			380.22	1,658.05	
342.93		722.12		9,601.89	
1,106.71		3,412.88		32,273.77	
241.54			1,484.99	4,824.09	
193.66		543.26		5,568.61	
	339.61		2,950.22		11,708.73
	5.13	308.26		143.18	
434.31			3,403.68	7,829.56	
58.36		1,143.45		2,635.23	
	113.26	64.67			3,071.15
	380.82		2,755.81		12,621.39
715.99			753.12	17,839.11	
989.50		8,643.91		34,534.75	
3,029.30		13,328.40		93,845.17	
1,150.73		6,671.29		36,667.80	
2,251.47		8,427.53		66,687.08	
	91.30		715.77		3,161.42
144.71		988.37		4,731.39	
419.22		2,760.34		13,573.93	
	56.46	483.83			984.25
	36.84		592.61		1,617.79
262.86			465.65	6,232.90	
	126.56		1,386.95		4,658.24
9.17		1,528.14		1,860.68	
421.74		1,945.38		12,928.40	
122.93			1,647.43	1,503.84	
458.53		232.86		12,705.58	
410.69		2,207.92		12,927.20	
48.72			166.22	1,039.14	
2,206.66		3,992.53		61,549.02	
113.24		384.56		3,342.56	
4.10			620.12		510.51
2,053.47		19,777.77		72,783.24	
1,205.48		6,641.06		37,926.72	
316.85		518.00		8,758.98	
41,613.92	6,944.47	157,466.98	56,852.17	1,231,596.60	227,382.27
6,295.31	968.81	314,095.71	139,656.09	318,696.27	146,032.57
47,909.23	7,913.28	471,562.69	196,508.26	1,550,292.87	373,414.84

NIAGARA SYSTEM *SINKING FUND*

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1937

Municipality	Period of years ending Oct. 31, 1937	Amount	Municipality	Period of years ending Oct. 31, 1937	Amount
		$ c.			$ c.
Acton	20 years	55,180.77	Elmira	19 years	64 495.87
Agincourt	13 “	8,588.06	Elora	18 “	30,936.66
Ailsa Craig	17 “	12,930.98	Embro	18 “	9,300.21
Alvinston	14 “	12,851.89	Erieau	14 “	4,951.12
Amherstburg	20 “	42,147.91	Erie Beach	13 “	1,224.86
Ancaster twp	14 “	13,115.01	Essex	14 “	24,472.12
Arkona	11 “	4,874.10	Etobicoke twp	15 “	158,208.69
Aylmer	14 “	34,022.57	Exeter	16 “	33,835.17
Ayr	18 “	12,042.74	Fergus	18 “	47,494.52
Baden	20 “	26,691.31	Fonthill	12 “	4,804.30
Beachville	20 “	33,701.66	Forest	15 “	25,837.27
Beamsville	1 “	603.11	Galt	21 “	443,034.26
Belle River	15 “	8,115.57	Georgetown	19 “	82,297.20
Blenheim	17 “	30,546.46	Glencoe	14 “	16,368.81
Blyth	14 “	7,723.42	Goderich	18 “	100,629.49
Bolton	17 “	14,588.40	Granton	16 “	6,717.80
Bothwell	17 “	14,782.37	Guelph	21 “	538,267.86
Brampton	21 “	137,759.37	Hagersville	19 “	64,225.45
Brantford	18 “	723,880.44	Hamilton	21 “	3,642,406.53
Brantford twp	13 “	25,985.67	Harriston	16 “	27,476.64
Bridgeport	10 “	4,735.00	Harrow	14 “	18,915.01
Brigden	15 “	9,896.87	Hensall	16 “	13,126.36
Brussels	14 “	10,532.62	Hespeler	21 “	89,677.02
Burford	17 “	11,086.96	Highgate	16 “	8,116.61
Burgessville	16 “	4,415.99	Humberstone	14 “	16,136.67
Caledonia	20 “	18,195.73	Ingersoll	21 “	150,490.20
Campbellville	13 “	1,968.95	Jarvis	14 “	12,006.47
Cayuga	13 “	7,541.92	Kingsville	14 “	32,099.27
Chatham	17 “	320,462.33	Kitchener	21 “	1,039,730.09
Chippawa	15 “	14,059.30	Lambeth	17 “	7,839.02
Clifford	14 “	5,466.76	LaSalle	12 “	10,991.47
Clinton	18 “	38,117.37	Leamington	14 “	64,664.59
Comber	17 “	15,718.68	Listowel	16 “	61,491.53
Cottam	11 “	3,298.69	London	21 “	1,877,748.37
Courtright	14 “	4,610.14	London Ry. Comm.	18 “	110,175.66
Dashwood	15 “	6,939.79	London twp	13 “	14,788.59
Delaware	17 “	2,481.34	Long Branch	7 “	16,933.05
Dorchester	18 “	6,042.22	Lucan	17 “	15,253.19
Drayton	14 “	10,077.55	Lynden	17 “	11,211.44
Dresden	17 “	25,820.37	Markham	14 “	14,661.15
Drumbo	18 “	5,274.32	Merlin	14 “	9,863.34
Dublin	15 “	4,752.31	Merritton	16 “	103,072.69
Dundas	21 “	115,084.26	Milton	19 “	83,803.26
Dunnville	14 “	49,449.03	Milverton	16 “	36,233.34
Dutton	17 “	16,141.91	Mimico	20 “	112,767.41

NIAGARA SYSTEM

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1937

Municipality	Period of years ending Oct. 31, 1937	Amount	Municipality	Period of years ending Oct. 31, 1937	Amount
		$ c.			$ c.
Mitchell	21 years	35,800.76	Strathroy	18 years	69,715.16
Moorefield	14 "	5,148.56	Streetsville	3 "	1,103.95
Mount Brydges	17 "	6,082.29	Sutton	14 "	12,172.68
Newbury	14 "	3,734.18	Swansea	1 "	481.00
New Hamburg	21 "	40,348.95	Tavistock	16 "	35,801.46
New Toronto	18 "	349,833.96	Tecumseh	15 "	20,283.37
Niagara Falls	17 "	466,411.03	Thamesford	18 "	13,563.62
Niagara-on-the-Lake.	14 "	24,800.90	Thamesville	17 "	13,872.20
Norwich	20 "	29,951.10	Thedford	14 "	7,430.40
Oil Springs	14 "	20,485.35	Thorndale	18 "	6,960.14
Otterville	16 "	6,924.22	Thorold	15 "	75,996.93
Palmerston	16 "	34,623.98	Tilbury	17 "	36,799.69
Paris	18 "	91,343.28	Tillsonburg	21 "	69,106.04
Parkhill	14 "	15,089.49	Toronto	21 "	15,431,836.92
Petrolia	16 "	82,554.07	Toronto twp.	19 "	81,878.22
Plattsville	18 "	7,263.74	Trafalgar twp. area 1.	1 "	1,059.33
Point Edward	15 "	43,960.26	Trafalgar twp. area 2.	1 "	328.23
Port Colborne	16 "	75,319.21	Wallaceburg	17 "	148,403.64
Port Credit	20 "	31,109.23	Wardsville	14 "	2,883.29
Port Dalhousie	16 "	27,092.45	Waterdown	21 "	18,534.80
Port Dover	14 "	19,886.59	Waterford	17 "	25,530.97
Port Rowan	11 "	5,276.99	Waterloo	21 "	206,217.60
Port Stanley	20 "	32,146.35	Watford	15 "	17,987.66
Preston	21 "	212,525.29	Welland	15 "	222,128.27
Princeton	18 "	7,213.76	Wellesley	16 "	13,523.31
Queenston	14 "	5,452.46	West Lorne	16 "	21,205.55
Richmond Hill	13 "	14,466.52	Weston	21 "	184,792.77
Ridgetown	17 "	33,728.27	Wheatley	14 "	10,237.93
Riverside	15 "	65,359.06	Windsor	18 "	2,420,187.40
Rockwood	19 "	9,100.35	Woodbridge	18 "	23,804.44
Rodney	15 "	10,499.11	Woodstock	21 "	311,573.47
St. Catharines	16 "	445,725.45	Wyoming	16 "	6,592.21
St. Clair Beach	15 "	5,321.02	York East twp.	13 "	205,824.60
St. George	17 "	11,336.69	York North twp.	14 "	99,786.84
St. Jacobs	15 "	12,315.05	Zurich	15 "	10,620.65
St. Marys	21 "	108,389.51	Mimico Asylum	3 "	1,309.62
St. Thomas	21 "	390,893.08	Ontario Reformatory	3 "	2,535.84
Sarnia	16 "	491,410.68	Prison Brick Yard	3 "	817.44
Scarboro twp.	14 "	140,503.65	Toronto Trans. Com.	16 "	156,879.96
Seaforth	21 "	50,816.21	Sandwich, Windsor & Amherstburg Ry. Co.	15 "	156,050.95
Simcoe	17 "	79,708.11			
Springfield	15 "	7,578.08			
Stamford twp.	16 "	75,615.78	Totals Municipalities		$35,468,474.33
Stouffville	14 "	12,636.48			
Stratford	21 "	485,791.38			

NIAGARA SYSTEM *SINKING FUND*

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1937

Rural power district*	Period of years ending Oct. 31, 1937	Amount
		$ c.
Acton R.P.D.	10 years	1,018.06
Ailsa Craig R.P.D.	8 "	542.39
Alvinston R.P.D.	9 "	471.99
Amherstburg R.P.D.	14 "	42,969.48
Aylmer R.P.D.	16 "	24,770.12
Ayr R.P.D.	12 "	3,531.26
Baden R.P.D.	16 "	24,789.00
Beamsville R.P.D.	15 "	68,871.65
Belle River R.P.D.	15 "	19,895.29
Blenheim R.P.D.	14 "	12,268.08
Bond Lake R.P.D.	14 "	57,507.49
Bothwell R.P.D.	14 "	11,323.53
Brampton R.P.D.	14 "	9,379.59
Brant R.P.D.	16 "	31,624.93
Brigden R.P.D.	11 "	5,461.55
Burford R.P.D.	11 "	10,452.70
Caledonia R.P.D.	13 "	20,766.58
Chatham R.P.D.	16 "	34,800.30
Chippawa R.P.D.	16 "	10,035.13
Clinton R.P.D.	10 "	11,139.47
Delaware R.P.D.	15 "	27,112.72
Dorchester R.P.D.	16 "	33,402.74
Dresden R.P.D.	10 "	2,964.27
Drumbo R.P.D.	16 "	11,451.59
Dundas R.P.D.	16 "	37,940.86
Dunnville R.P.D.	10 "	2,750.88
Dutton R.P.D.	12 "	8,378.75
Elmira R.P.D.	12 "	4,337.44
Elora R.P.D.	12 "	9,607.52
Essex R.P.D.	13 "	18,427.93
Exeter R.P.D.	15 "	23,925.49
Forest R.P.D.	11 "	4,359.99
Galt R.P.D.	16 "	11,663.68
Georgetown R.P.D.	13 "	10,332.21
Goderich R.P.D.	13 "	8,238.72
Grantham R.P.D.	13 "	35,334.66
Guelph R.P.D.	13 "	22,705.99
Haldimand R.P.D.	13 "	13,509.89
Harriston R.P.D.	8 "	1,940.52
Harrow R.P.D.	14 "	24,506.98
Ingersoll R.P.D.	16 "	29,073.51
Jordan R.P.D.	16 "	16,090.65
Keswick R.P.D.	14 "	29,770.56
Kingsville R.P.D.	14 "	56,203.89
Listowel R.P.D.	11 "	11,140.36
London R.P.D.	15 "	98,245.36
Lucan R.P.D.	12 "	6,367.83
Lynden R.P.D.	16 years	15,113.13
Markham R.P.D.	15 "	30,126.85
Merlin R.P.D.	9 "	14,055.51
Milton R.P.D.	13 "	12,529.43
Milverton R.P.D.	11 "	5,943.68
Mitchell R.P.D.	12 "	14,145.88
Newmarket R.P.D.	14 "	17,755.52
Niagara R.P.D.	16 "	30,903.30
Norwich R.P.D.	13 "	28,843.87
Oil Springs R.P.D.	12 "	4,338.79
Palmerston R.P.D.	11 "	4,018.15
Petrolia R.P.D.	15 "	2,719.36
Preston R.P.D.	16 "	59,980.32
Ridgetown R.P.D.	16 "	29,072.08
St. Jacobs R.P.D.	15 "	18,335.33
St. Marys R.P.D.	10 "	18,654.87
St. Thomas R.P.D.	15 "	43,818.29
Saltfleet R.P.D.	16 "	67,208.68
Sandwich R.P.D.	16 "	75,816.01
Sarnia R.P.D.	15 "	41,362.31
Scarboro R.P.D.	14 "	23,282.76
Seaforth R.P.D.	10 "	3,890.89
Simcoe R.P.D.	15 "	15,220.24
Stamford R.P.D.	16 "	9,989.15
Stratford R.P.D.	14 "	13,855.80
Strathroy R.P.D.	11 "	8,435.29
Streetsville R.P.D.	15 "	24,804.13
Tavistock R.P.D.	15 "	14,492.88
Thamesville R.P.D.	10 "	9,150.24
Tilbury R.P.D.	14 "	12,118.69
Tillsonburg R.P.D.	14 "	33,978.02
Wallaceburg R.P.D.	15 "	21,448.99
Walsingham R.P.D.	11 "	16,942.34
Walton R.P.D.	13 "	8,940.20
Waterdown R.P.D.	15 "	40,735.22
Waterford R.P.D.	14 "	12,958.10
Watford R.P.D.	8 "	1,907.06
Welland R.P.D.	8 "	92,374.35
Woodbridge R.P.D.	15 "	50,423.17
Woodstock R.P.D.	16 "	42,140.74

Total—Rural power districts	$ 1,953,233.20
Total—Municipalities	$35,468,474.33
Total—Rural power districts	1,953,233.20
Grand total	$37,421,707.53

*For townships included in rural power districts see "Cost of Power" statement preceding.

NIAGARA SYSTEM—RURAL LINES

Statement showing Interest, Depreciation and Obsolecsence, Contingencies and Sinking Fund charged by the Commission to the Municipalities which operate the respective rural lines for the year ending October 31, 1937

Operated by	Capital cost	Interest	Provision for depreciation and obsolescence	Provision for contingencies	Provision for sinking fund	Total interest depreciation and obsolescence, contingencies and sinking fund charged
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Milton.........	440.82	21.86	8.82	4.41	7.93	43.02
Welland........	19,617.60	823.94	392.35	196.18	353.12	1,765.59
Totals.....	20,058.42	845.80	401.17	200.59	361.05	1,808.61

NIAGARA SYSTEM—RURAL LINES

Statement showing the total Sinking Fund in respect of each line, together with interest allowed thereon to October 31, 1937

Lines operated by	Period of years ending October 31, 1937	Amount
		$ c.
Milton..	24 years	290.41
Welland..	25 "	13,915.80
Total..	....	14,206.21

GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual Cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating		
	To Oct. 31 1936	To Oct. 31 1937			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
	$ c.	$ c.	$ c.		$ c.	$ c.	$ c.
Alliston	55.00	51.00	98,973.61	267.5	553.46	3,888.44	4,471.68
Arthur	67.50	67.00	68,037.17	140.4	290.49	3,041.99	3,050.70
Barrie	32.50	32.50	585,696.22	2,543.3	5,262.07	24,995.90	25,993.94
Beaverton	40.00	40.00	54,015.25	204.0	422.08	2,970.13	2,401.58
Beeton	71.50	66.00	49,287.88	96.8	200.28	1,885.97	2,238.46
Bradford	58.00	55.00	69,249.81	179.1	370.56	3,183.60	3,082.54
Brechin	48.50	48.50	17,300.64	49.7	102.83	957.73	771.90
Cannington	40.50	40.50	41,446.53	150.8	312.00	2,204.00	1,843.77
Chatsworth	43.00	45.00	18,104.06	67.5	139.66	906.36	805.12
Chesley	35.50	35.50	131,587.16	504.0	1,042.77	5,269.70	5,848.07
Coldwater	36.50	36.50	78,652.97	321.5	665.18	3,318.89	3,472.55
Collingwood	39.00	39.00	319,802.56	1,228.0	2,540.73	14,382.71	14,445.22
Cookstown	50.00	50.00	20,695.46	60.0	124.14	995.58	921.46
Creemore	54.50	53.00	37,170.74	103.2	213.52	1,890.61	1,662.31
Dundalk	37.00	37.00	41,242.96	161.3	333.73	2,268.00	1,832.86
Durham	40.50	39.00	87,115.59	312.0	645.53	4,586.93	3,878.27
Elmvale	39.50	39.50	39,925.66	153.3	317.18	2,086.40	1,775.30
Elmwood	42.50	42.50	16,521.29	58.2	120.42	826.06	735.14
Flesherton	45.50	45.50	23,873.00	79.7	164.90	1,378.83	1,063.29
Grand Valley	53.00	53.00	41,638.93	112.6	232.97	2,012.45	1,863.48
Gravenhurst	25.00	25.00	139,278.92	783.9	....	6,370.63	6,149.51
Hanover	32.00	32.00	243,037.09	1,028.4	2,127.76	9,726.75	10,781.60
Holstein	90.00	80.00	9,581.16	16.0	33.10	639.84	429.58
Huntsville	28.00	28.00	195,245.38	922.6	....	8,832.34	8,667.06
Kincardine	46.50	46.50	211,766.68	608.4	1,258.78	7,694.44	9,457.76
Kirkfield	56.00	56.00	10,923.86	24.3	50.28	383.01	488.63
Lucknow	53.50	53.50	86,719.23	221.9	459.11	3,507.97	3,933.04
Markdale	37.00	37.00	42,249.72	172.0	355.87	2,251.76	1,876.42
Meaford	40.50	40.50	156,708.53	530.4	1,097.40	6,802.00	6,868.93
Midland	31.50	31.50	581,716.15	2,555.4	5,287.10	24,013.32	25,823.74
Mildmay	48.50	47.00	30,418.93	90.8	187.86	1,187.39	1,358.02
Mount Forest	46.00	44.00	126,351.55	414.5	857.60	6,757.99	5,631.31
Neustadt	67.50	65.00	13,838.79	29.9	61.86	564.45	620.92
Orangeville	45.00	44.00	191,850.38	586.3	1,213.05	8,465.85	8,576.90
Owen Sound	32.00	32.00	834,624.85	3,635.9	7,522.67	36,361.95	37,015.30
Paisley	54.00	54.00	48,720.69	117.9	243.93	1,733.21	2,099.52
Penetanguishene	36.50	36.50	180,238.53	690.4	1,428.43	7,434.62	8,017.86
Port Elgin	38.00	39.00	98,284.29	308.1	637.46	3,755.06	4,389.06
Port McNicoll	37.00	37.00	21,564.38	76.4	158.07	819.58	960.31
Port Perry	47.50	46.50	83,426.79	241.8	500.28	3,492.52	3,721.94

SYSTEM *G.B.—COST OF POWER*

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of Power supplied to it in the year ending October 31, 1937

costs and fixed charges							
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund	Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,479.28	330.29	802.50	1,043.71	75.59	12,644.95	13,824.37	1,179.42
1,088.37	220.93	421.20	712.05	39.67	8,865.40	9,420.30	554.90
6,740.26	2,150.58	7,629.90	6,067.10	718.68	79,558.43	82,656.40	3,097.97
680.99	196.25	612.00	560.54	57.65	7,901.22	8,158.30	257.08
810.28	159.07	290.40	522.47	27.35	6,134.28	6,475.79	341.51
1,029.69	230.33	537.30	719.48	50.61	9,204.11	9,936.46	732.35
248.73	62.21	149.10	180.16	14.04	2,486.70	2,412.41	(74.29)
533.75	150.27	452.40	430.34	42.61	5,969.14	6,106.35	137.21
229.97	70.43	202.50	187.92	19.07	2,561.03	3,012.81	451.78
1,644.65	497.94	1,512.00	1,364.96	142.42	17,322.51	17,890.24	567.73
934.79	296.29	964.50	810.50	90.85	10,553.55	11,734.05	1,180.50
4,094.26	1,195.23	3,684.00	3,371.57	347.00	44,060.72	47,892.95	3,832.23
295.65	75.70	180.00	215.07	16.95	2,824.55	2,999.54	174.99
542.83	130.01	309.60	387.99	29.16	5,166.03	5,500.04	334.01
509.17	153.76	483.90	427.80	45.58	6,054.80	5,969.60	(85.20)
1,132.50	326.21	936.00	905.20	88.16	12,498.80	12,253.15	(245.65)
498.70	151.47	459.90	414.36	43.32	5,746.63	6,056.88	310.25
216.44	66.15	174.60	171.58	16.45	2,326.84	2,475.23	148.39
321.46	85.24	239.10	248.18	22.52	3,523.52	3,625.93	102.41
614.34	143.26	337.80	434.94	31.82	5,671.06	5,967.76	296.70
1,251.89	530.69	2,351.70	1,435.32	221.51	18,311.25	19,598.45	1,287.20
2,845.52	938.43	3,085.20	2,516.47	290.60	32,312.33	32,907.27	594.94
160.35	28.73	48.00	100.27	4.52	1,444.39	1,308.26	(136.13)
2,107.09	700.06	2,767.80	2,022.94	260.70	25,357.99	25,831.75	473.76
3,048.52	715.14	1,825.20	2,207.48	171.92	26,379.24	28,288.62	1,909.38
170.92	35.71	72.90	114.05	6.87	1,322.37	1,357.96	35.59
1,326.23	296.43	665.70	917.99	62.70	11,169.17	11,872.93	703.76
508.35	153.25	516.00	437.96	48.60	6,148.21	6,362.12	213.91
2,047.56	541.23	1,591.20	1,603.24	149.88	20,701.44	21,481.16	779.72
6,642.06	2,078.84	7,666.20	6,027.38	722.10	78,260.74	80,493.75	2,233.01
431.26	109.60	272.40	316.97	25.65	3,889.15	4,288.27	399.12
1,716.88	433.41	1,243.50	1,314.37	117.13	18,072.19	18,385.48	313.29
219.03	44.32	89.70	144.93	8.45	1,753.66	1,953.25	199.59
2,699.60	659.96	1,758.90	2,001.88	165.67	25,541.81	25,898.91	357.10
9,571.33	3,031.70	10,907.70	8,639.52	1,027.42	114,077.59	116,349.04	2,271.45
709.01	160.98	353.70	490.04	33.32	5,823.71	6,364.35	540.64
2,255.98	642.83	2,071.20	1,871.40	195.09	23,917.41	25,200.73	1,283.32
1,366.29	339.04	924.30	1,024.43	87.06	12,522.70	11,963.70	(559.00)
282.03	84.14	229.20	224.14	21.59	2,779.06	2,824.92	45.86
1,195.23	278.03	725.40	868.72	68.33	10,850.45	11,287.24	436.79

GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual Cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating		
	To Oct. 31 1936	To Oct. 31 1937			Cost of power purchased	Operating, main-tenance and adminis-trative expenses	Interest
	$ c.	$ c.	$ c.		$ c.	$ c.	$ c.
Priceville	60.00	60.00	4,258.19	14.8	30.62	321.70	189.64
Ripley	70.00	70.00	29,178.29	55.2	114.21	1,231.87	1,321.50
Rosseau	90.50	88.00	27,631.81	37.2	....	980.67	1,240.85
Shelburne	42.00	42.00	66,786.46	223.3	462.01	3,272.45	2,983.21
Southampton	38.00	39.00	77,267.81	247.5	512.08	2,953.52	3,450.28
Stayner	40.00	40.00	54,459.73	206.5	427.25	2,836.80	2,427.67
Sunderland	54.00	54.00	26,613.67	67.4	139.45	1,477.49	1,171.47
Tara	42.50	42.50	28,116.68	94.6	195.73	1,224.89	1,252.19
Teeswater	52.50	52.50	45,098.92	119.8	247.87	1,914.36	2,016.28
Thornton	60.50	60.50	11,212.26	23.1	47.79	436.51	478.49
Tottenham	88.00	83.00	39,795.63	63.2	130.76	1,449.52	1,769.47
Uxbridge	48.50	48.50	88,926.02	247.5	512.08	3,735.58	3,969.06
Victoria Harbour	40.00	40.00	19,151.66	64.8	134.07	809.86	852.94
Walkerton	34.50	34.50	150,443.45	645.6	1,335.74	6,423.02	6,685.30
Waubaushene	40.00	40.00	21,774.50	85.4	176.69	1,311.82	904.54
Wiarton	61.00	58.00	111,663.62	259.4	536.70	4,012.41	5,044.88
Windermere	62.50	60.00	16,085.57	37.2	....	608.18	719.95
Wingham	52.50	52.50	145,882.88	368.1	761.60	4,947.21	6,528.07
Woodville	54.00	54.00	21,339.72	55.6	115.04	1,012.77	953.12
Totals—Municipalities			6,132,570.26	22,764.4	43,414.80	264,805.59	272,983.96
RURAL POWER DISTRICTS							
Alliston R.P.D.—Essa, Tecumseth and Tossorontio twps			33,364.47	99.8	206.49	1,296.57	1,489.71
Arthur R.P.D.—Luther E. and Luther W. twps			1,590.11	4.3	8.90	67.10	71.16
Bala R.P.D.—Medora and Wood twps.			39,660.29	170.9	353.59	1,718.94	1,759.83
Barrie R.P.D.—Innisfil, Oro and Vespra twps			95,348.67	346.3	716.49	3,451.37	4,244.10
Baysville R.P.D.—Franklin, Macaulay, McLean, Ridout and Sherbourne twps			23,844.93	89.9	....	854.25	1,060.40
Beaumaris R.P.D.—Macaulay, Medora and Wood, Monck, Muskoka and Watt twps			45,920.53	225.5	....	1,951.30	2,031.52
Beaverton R.P.D.—Brock, Georgina, Mara and Thorah twps			51,044.01	182.3	377.18	2,993.93	2,271.31
Beeton R.P.D.—Tecumseth twp			2,545.88	5.0	10.34	86.85	115.62
Bradford R.P.D.—Gwillimbury W., King and Tecumseth twps			23,786.13	59.3	122.69	876.87	1,059.32
Bruce R.P.D.—Amabel, Brant, Bruce, Carrick, Culross, Greenock and Saugeen twps			53,981.60	152.2	314.90	1,878.03	2,374.34

SYSTEM *G.B.—COST OF POWER*

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of Power supplied to it in the year ending October 31, 1937

costs and fixed charges							
Provision for deprecia-tion and obsoles-cence	Provision for contin-gencies	Provision for stabiliza-tion of rates	Provision for sinking fund	Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
56.24	16.88	44.40	44.26	4.18	707.92	889.50	181.58
482.02	92.76	165.60	308.44	15.60	3,732.00	3,861.63	129.63
480.12	84.17	111.60	289.62	10.51	3,197.54	3,289.53	91.99
902.53	245.35	669.90	696.29	63.10	9,294.84	9,378.02	83.18
1,064.08	272.35	742.50	805.30	69.94	9,870.05	9,614.79	(255.26)
687.85	204.82	619.50	566.63	58.35	7,828.87	8,259.36	430.49
392.56	88.02	202.20	273.43	19.05	3,763.67	3,639.15	(124.52)
377.20	106.03	283.80	292.27	26.73	3,758.84	4,020.08	261.24
668.54	172.25	359.40	470.60	33.85	5,883.15	6,288.92	405.77
168.68	38.42	69.30	111.68	6.53	1,357.40	1,394.99	37.59
665.57	121.67	189.60	413.00	17.86	4,757.45	5,302.34	544.89
1,294.07	295.83	742.50	926.39	69.94	11,545.45	12,001.27	455.82
256.25	71.05	194.40	199.08	18.31	2,535.96	2,589.96	54.00
1,749.50	560.67	1,936.80	1,560.37	182.43	20,433.83	22,273.97	1,840.14
240.38	79.53	256.20	211.12	24.13	3,204.41	3,415.96	211.55
1,748.60	367.26	778.20	1,177.50	73.30	13,738.85	15,174.48	1,435.63
249.20	55.48	111.60	168.04	10.51	1,922.96	2,236.00	313.04
2,201.69	497.47	1,104.30	1,523.68	104.02	17,668.04	19,323.46	1,655.42
317.97	70.55	166.80	222.46	15.71	2,874.42	3,001.05	126.63
78,204.29	21,934.70	68,293.20	63,715.58	6,432.66	819,784.78	854,341.18	36,036.45 (1,480.05)
472.71	114.56	299.40	347.71	28.20	4,255.35	4,255.35	see page 247
23.46	5.47	12.90	16.60	1.22	206.81	206.81	"
458.74	147.92	512.70	410.75	48.29	5,410.76	5,410.76	"
1,230.20	367.14	1,038.90	990.59	97.86	12,136.65	12,136.65	"
301.01	100.27	269.70	247.50	25.40	2,858.53	2,858.53	"
476.50	183.29	676.50	474.16	63.72	5,856.99	5,856.99	"
664.06	185.40	546.90	530.14	51.51	7,620.43	7,620.43	"
41.85	8.22	15.00	26.99	1.41	306.28	306.28	"
358.08	80.55	177.90	247.25	16.76	2,939.42	2,939.42	"
766.31	188.58	456.60	554.18	43.01	6,575.95	6,575.95	"

GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual Cost

Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating		
			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
	$ c.		$ c.	$ c.	$ c.
Buckskin R.P.D.—Matchedash, Medora and Wood twps.	5,615.11	15.7	32.48	192.70	250.61
Cannington R.P.D.—Brock, Eldon and Mariposa twps.	13,761.27	43.0	88.97	628.44	612.28
Chatsworth R.P.D.—Holland twp.	3,807.46	9.0	18.62	106.64	170.22
Cookstown R.P.D.—Essa, Innisfil and Tecumseth twps.	448.40	1.3	2.69	17.25	19.98
Creemore R.P.D.—Nottawasaga, Osprey, Sunnidale, Melancthon, Mulmur and Tossorontio twps.	20,376.96	71.2	147.31	919.78	909.22
Dundalk R.P.D.—Melancthon and Proton twps.	2,377.92	9.3	19.24	109.61	105.67
Elmvale R.P.D.—Flos, Medonte, Oro, Tiny and Vespra twps.	20,754.01	72.7	150.42	863.83	924.00
Flesherton R.P.D.—Artemesia twp.	2,863.50	9.6	19.86	132.92	127.54
Gravenhurst R.P.D.—Morrison and Muskoka twps.	6,089.27	31.8	....	351.56	269.27
Hawkestone R.P.D.—Medonte, Orillia and Oro twps.	693.46	119.2	2,621.29	32.93	31.29
Holstein R.P.D.—Bentinck, Egremont and Normanby twps.	727.12	2.8	5.79	29.42	32.34
Huntsville R.P.D.—Brunel, Chaffey, Franklin, Perry and Sinclair twps.	27,741.50	120.4	....	1,483.29	1,233.09
Innisfil R.P.D.—Gwillimbury W. and Innisfil twps.	91,059.44	275.7	570.42	3,287.93	3,966.21
Kirkfield R.P.D.—Bexley, Carden and Eldon twps.	2,844.38	7.2	14.90	98.44	127.08
Lucknow R.P.D.—Kinloss twp.	2,019.37	6.0	12.41	81.44	91.67
Mariposa R.P.D.—Brock, Mariposa and Reach twps.	48,895.49	167.8	347.18	2,062.02	2,176.87
Markdale R.P.D.—Artemesia, Euphrasia, Glenelg and Holland twps.	12,419.85	41.1	85.03	519.19	550.94
Meaford R.P.D.—St. Vincent twp.	3,929.53	13.3	27.52	160.97	172.24
Medonte R.P.D.—Baxter, Gibson and Tay twps.	16,289.10	60.8	125.80	704.33	703.77
Midland R.P.D.—Flos, Medonte, Tay and Tiny twps.	35,701.73	137.1	283.66	1,626.45	1,578.55
Minden R.P.D.—Anson and Hindon, Minden and Snowdon twps.	419.03	35.6	783.74	46.45	4.73
Neustadt R.P.D.—Bentinck and Normanby twps.	978.77	3.4	7.03	31.34	44.07
Nottawasaga R.P.D.—Nottawasaga twp.	9,343.27	33.7	69.73	393.64	421.99

SYSTEM *G.B.—COST OF POWER*

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of Power supplied to it in the year ending October 31, 1937

costs and fixed charges				Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
81.57	23.97	47.10	58.49	4.44	691.36	691.36	see page 247
190.57	47.75	129.00	142.91	12.15	1,852.07	1,852.07	"
58.53	16.45	27.00	39.73	2.54	439.73	439.73	"
6.41	1.65	3.90	4.66	0.37	56.91	56.91	"
269.16	74.62	213.60	212.22	20.12	2,766.03	2,766.03	"
29.36	8.87	27.90	24.66	2.63	327.94	327.94	"
272.89	82.99	218.10	215.66	20.54	2,748.43	2,748.43	"
38.48	11.18	28.80	29.77	2.71	391.26	391.26	"
59.57	23.72	95.40	62.85	8.99	871.36	871.36	"
13.87	3.47	357.60	7.30	33.69	3,101.44	3,101.44	"
9.07	2.66	8.40	7.55	0.79	96.02	96.02	"
320.22	102.67	361.20	287.81	34.02	3,822.30	3,822.30	"
1,239.76	314.02	827.10	925.73	77.91	11,209.08	11,209.08	"
42.79	10.00	21.60	29.66	2.03	346.50	346.50	"
29.36	7.20	18.00	21.40	1.70	263.18	263.18	"
649.45	172.72	503.40	508.09	47.42	6,467.15	6,467.15	"
166.93	50.59	123.30	128.59	11.61	1,636.18	1,636.18	"
51.34	13.58	39.90	40.20	3.76	509.51	509.51	"
197.65	62.56	182.40	164.25	17.18	2,157.94	2,157.94	"
441.94	129.42	411.30	368.45	38.74	4,878.51	4,878.51	"
2.10	0.52	106.80	1.10	10.07	955.51	955.51	"
13.15	3.57	10.20	10.29	0.96	120.61	120.61	"
123.67	35.63	101.10	98.49	9.52	1,253.77	1,253.77	"

GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual Cost

Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating		
			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
	$ c.		$ c.	$ c.	$ c.
Orangeville R.P.D.—Adjala, Albion, Amaranth, Caledon, Erin, Garafraxa E. and Mona twps.	17,584.42	51.2	105.93	709.75	786.47
Owen Sound R.P.D.—Derby, Keppel, Sarawak, St. Vincent and Sydenham twps.	14,690.45	62.3	128.90	631.38	651.82
Port Perry R.P.D.—Cartwright, Manvers, Reach and Scugog twps.	49,504.69	131.4	271.87	1,762.96	2,210.64
Ripley R.P.D.—Huron, Kincardine and Kinloss twps.	5,835.26	15.4	31.86	229.38	264.30
Sauble R.P.D.—Albemarle, Amabel and Keppel twps.	13,047.67	30.3	62.69	444.14	589.47
Shelburne R.P.D.—Amaranth, Melancthon and Mulmur twps.	11,663.25	35.7	73.86	485.73	521.42
South Falls R.P.D.—Draper twp.	205.55	1.3	....	9.59	9.05
Sparrow Lake R.P.D.—Matchedash, Morrison, Orillia and Rama twps.	36,284.65	159.6	330.21	1,393.05	1,609.45
Tara R.P.D.—Amabel, Arran, Derby, Keppel and Sullivan twps.	24,397.48	85.6	177.11	895.15	1,085.91
Thornton R.P.D.—Essa twp.	8,049.39	15.6	32.28	255.26	344.68
Tottenham R.P.D.—Adjala and Tecumseth twps.	3,526.19	5.6	11.59	112.71	156.80
Utterson R.P.D.—Brunel, Cardwell, Humphrey, Medora and Wood, Stephenson and Watt twps.	25,534.50	78.9	....	896.12	1,139.74
Uxbridge R.P.D.—Brock, Georgina, Reach, Scott and Uxbridge twps.	38,301.04	106.6	220.56	1,469.39	1,709.50
Wasaga Beach R.P.D.—Flos, Nottawasaga, Sunnidale and Tiny twps.	57,993.66	219.9	454.97	2,634.21	2,585.19
Wroxeter R.P.D.—Carrick, Culross, Howick, Morris and Turnberry twps.	54,596.21	129.2	267.31	1,811.38	2,429.92
Totals—Rural power districts	1,061,456.97	3,751.8	9,713.81	42,795.98	47,095.30
Totals—Municipalities	6,132,570.26	22,764.4	43,414.80	264,805.59	272,983.96
Totals—Rural power districts	1,061,456.97	3,751.8	9,713.81	42,795.98	47,095.30
Totals—Companies and local distributing systems	507,924.18	1,469.3	3,039.98	23,015.61	22,623.59
	7,701,951.41				
Non-operating capital	474,155.81				
Grand totals	8,176,107.22	27,985.5	56,168.59	330,617.18	342,702.85

SYSTEM *G.B.—COST OF POWER*

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of Power supplied to it in the year ending October 31, 1937

costs and fixed charges				Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	
252.36	61.78	153.60	183.56	14.47	2,267.92	2,267.92	see page 247
171.79	53.89	186.90	152.14	17.60	1,994.42	1,994.42	"
732.87	171.94	394.20	515.97	37.13	6,097.58	6,097.58	"
88.21	20.04	46.20	61.69	4.35	746.03	746.03	"
204.33	46.21	90.90	137.59	8.56	1,583.89	1,583.89	"
164.02	44.15	107.10	121.70	10.09	1,528.07	1,528.07	"
1.57	0.78	3.90	2.11	0.37	27.37	27.37	"
413.33	139.67	478.80	375.65	45.10	4,785.26	4,785.26	"
320.42	94.55	256.80	253.45	24.19	3,107.58	3,107.58	"
123.46	28.33	46.80	80.45	4.41	915.67	915.67	"
58.98	10.78	16.80	36.60	1.58	405.84	405.84	"
356.87	90.83	236.70	266.02	22.30	3,008.58	3,008.58	"
557.37	127.42	319.80	399.00	30.12	4,833.16	4,833.16	"
732.48	218.10	659.70	603.39	62.14	7,950.18	7,950.18	"
834.23	189.97	387.60	567.15	36.51	6,524.07	6,524.07	"
14,113.05	3,879.65	11,255.40	10,992.20	1,060.19	140,905.58	140,905.58	
78,204.29	21,934.70	68,293.20	63,715.58	6,432.66	819,784.78	854,341.18	36,036.45 (1,480.05)
14,113.05	3,879.65	11,255.40	10,922.20	1,060.19	140,905.58	140,905.58	....
7,266.06	2,378.39	....	5,280.43	(7,492.85)	56,111.21	56,111.21	....
99,583.40	28,192.74	79,548.60	79,988.21	....	1,016,801.57	1,051,357.97	36,036.45 (1,480.05)

GEORGIAN BAY SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged to (by annual adjustment) of the actual costs

Rural power district	Total capital cost of each district, Provincial Government grant received and applied there against, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
Alliston R.P.D.	56,036.20	27,766.81	28,269.39	4,255.35
Arthur R.P.D.	*5,226.92	2,426.69	2,800.23	206.81
Bala R.P.D.	*114,006.46	55,864.31	58,142.15	5,410.76
Barrie R.P.D.	160,591.06	80,295.53	80,295.53	12,136.65
Baysville R.P.D.	82,152.60	41,076.30	41,076.30	2,858.53
Beaumaris R.P.D.	134,879.10	67,439.55	67,439.55	5,856.99
Beaverton R.P.D.	*77,249.33	38,278.51	38,970.82	7,620.43
Beeton R.P.D.	3,043.33	1,521.67	1,521.66	306.28
Bradford R.P.D.	45,608.03	22,638.95	22,969.08	2,939.42
Bruce R.P.D.	*94,658.36	45,775.20	48,883.16	6,575.95
Buckskin R.P.D.	5,748.11	2,874.06	2,874.05	691.36
Cannington R.P.D.	*22,339.61	9,716.69	12,622.92	1,852.07
Chatsworth R.P.D.	1,486.53	743.26	743.27	439.73
Cookstown R.P.D.	1,234.60	617.30	617.30	56.91
Creemore R.P.D.	*75,951.24	37,078.14	38,873.10	2,766.03
Dundalk R.P.D.	9,546.76	4,773.38	4,773.38	327.94
Elmvale R.P.D.	61,384.34	30,559.00	30,825.34	2,748.43
Flesherton R.P.D.	*7,958.85	3,792.65	4,166.20	391.26
Gravenhurst R.P.D.	18,159.65	9,079.83	9,079.82	871.36
Hawkestone R.P.D.	85,112.34	42,556.17	42,556.17	3,101.44
Holstein R.P.D.	*2,495.24	1,056.18	1,439.06	96.02
Huntsville R.P.D.	120,743.66	60,371.83	60,371.83	3,822.30
Innisfil R.P.D.	125,213.26	62,606.63	62,606.63	11,209.08
Kirkfield R.P.D.	13,286.58	6,643.29	6,643.29	346.50
Lucknow R.P.D.	*1,145.46	456.00	689.46	263.18
Mariposa R.P.D.	87,097.48	43,537.38	43,560.10	6,467.15
Markdale R.P.D.	*31,143.61	15,338.34	15,805.27	1,636.18
Meaford R.P.D.	11,503.81	5,751.91	5,751.90	509.51
Medonte R.P.D.	87,656.75	43,828.37	43,828.38	2,157.94
Midland R.P.D.	95,187.19	47,593.60	47,593.59	4,878.51
Minden R.P.D.	33,275.33	16,637.66	16,637.67	955.51
Neustadt R.P.D.	*1,911.01	908.81	1,002.20	120.61
Nottawasaga R.P.D.	18,160.40	9,080.20	9,080.20	1,253.77
Orangeville R.P.D.	77,346.54	38,673.27	38,673.27	2,267.92
Owen Sound R.P.D.	66,177.41	33,088.71	33,088.70	1,994.42
Port Perry R.P.D.	93,146.66	46,573.33	46,573.33	6,097.58
Ripley R.P.D.	*21,906.03	10,719.55	11,186.48	746.03
Sauble R.P.D.	20,075.43	10,037.71	10,037.72	1,583.89
Shelburne R.P.D.	28,062.53	13,403.44	14,659.09	1,528.07
South Falls R.P.D.	1,605.24	802.62	802.62	27.37
Sparrow Lake R.P.D.	113,815.01	56,907.50	56,907.51	4,785.26
Tara R.P.D.	65,955.94	32,977.97	32,977.97	3,107.58
Thornton R.P.D.	10,086.30	5,043.15	5,043.15	915.67
Tottenham R.P.D.	6,474.95	3,237.47	3,237.48	405.84
Utterson R.P.D.	*79,584.64	38,576.61	41,008.03	3,008.58
Uxbridge R.P.D.	90,409.17	45,204.59	45,204.58	4,833.16
Wasaga Beach R.P.D.	98,551.56	....	98,551.56	7,950.18
Wroxeter R.P.D.	85,614.85	41,383.93	44,230.92	6,524.07
Total capital	2,550,005.46	1,215,314.05	1,334,691.41	
Non-operating capital	112,530.73	56,171.32	56,359.41	
Grand totals	2,662,536.19	1,271,485.37	1,391,050.82	140,905.58

Note—Items marked * include portions of transmission lines aggregating $12,399.84 used for purposes of rural power districts.

District, the revenue collected from (or charged to) customers within each District, the Municipalities comprising certain other Districts upon ascertainment in the year ending October 31, 1937

Distribution costs and fixed charges				Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest	Provision for depreciation and obsolescence	Sinking fund			Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,825.26	1,058.58	464.27	247.07	7,850.53	7,563.26	....	287.27
129.14	121.02	49.92	28.24	535.13	570.05	34.92	....
4,256.61	2,293.15	993.81	535.23	13,489.56	12,567.79	....	921.77
6,447.41	3,446.80	1,528.00	804.50	24,363.36	24,657.68	294.32	....
1,318.84	1,730.26	767.04	403.85	7,078.52	8,195.97	1,117.45	....
4,116.69	2,730.94	1,210.66	637.41	14,552.69	16,631.51	2,078.82	....
3,327.88	1,665.09	731.23	388.64	13,733.27	12,342.63	....	1,390.64
88.69	68.37	30.30	15.96	509.60	215.56	....	294.04
1,302.12	961.97	423.15	224.53	5,851.19	4,631.21	....	1,219.98
2,976.13	1,804.78	753.43	421.24	12,531.53	12,617.81	86.28	....
192.69	128.74	57.07	30.05	1,099.91	710.59	....	389.32
1,405.69	542.08	212.12	126.52	4,138.48	3,565.19	....	573.29
134.86	33.54	14.87	7.83	630.83	672.44	41.61	....
61.58	27.85	12.35	6.50	165.19	92.65	....	72.54
1,875.17	1,286.78	552.50	300.34	6,780.82	5,742.30	....	1,038.52
310.81	109.13	48.38	25.47	821.73	674.15	....	147.58
1,492.84	945.00	416.26	220.56	5,823.09	6,272.91	449.82	....
359.23	149.65	62.60	34.93	997.67	805.38	....	192.29
409.57	322.07	142.78	75.17	1,820.95	2,075.28	254.33	....
3,331.49	1,545.89	685.31	360.82	9,024.95	7,491.88	....	1,533.07
112.84	62.14	23.72	14.50	309.22	255.78	....	53.44
3,471.58	2,289.60	1,015.01	534.40	11,132.89	8,710.53	....	2,422.36
3,585.31	2,586.38	1,146.57	603.67	19,131.01	21,864.43	2,733.42	....
264.31	79.20	35.10	18.49	743.60	483.37	....	260.23
26.84	28.00	10.08	6.54	334.64	160.27	....	174.37
2,063.12	1,925.30	853.41	449.37	11,758.35	14,290.08	2,531.73	....
1,242.98	707.68	309.05	165.18	4,061.07	3,160.66	....	900.41
256.09	216.69	96.06	50.58	1,128.93	1,118.60	....	10.33
1,496.55	1,503.57	666.55	350.94	6,175.55	4,443.11	....	1,732.44
3,038.54	1,922.27	852.17	448.67	11,140.16	9,739.03	....	1,401.13
1,091.35	301.06	133.47	70.27	2,551.66	2,011.02	....	540.64
72.59	40.57	17.59	9.47	260.83	243.06	....	17.77
969.29	399.86	177.26	93.33	2,893.51	2,898.63	5.12	....
866.38	1,049.22	465.14	244.89	4,893.55	3,726.17	....	1,167.38
2,278.64	945.25	419.04	220.62	5,857.97	4,424.63	....	1,433.34
3,098.98	2,046.37	907.18	477.63	12,627.74	13,145.51	517.77	....
348.17	328.75	141.07	76.74	1,640.76	809.39	....	831.37
822.04	332.62	147.46	77.64	2,963.65	2,847.59	....	116.06
788.12	640.10	271.21	149.40	3,376.90	2,234.09	....	1,142.81
38.17	12.78	5.67	2.98	86.97	80.84	....	6.13
2,889.51	2,401.14	1,064.45	560.43	11,700.79	12,251.59	550.80	....
2,608.26	1,160.08	514.28	270.77	7,660.97	6,479.14	....	1,181.83
239.39	217.18	96.28	50.69	1,519.21	1,044.88	....	474.33
157.28	93.86	41.61	21.91	720.50	422.35	....	298.15
2,067.07	1,488.37	635.50	347.39	7,546.91	7,950.47	403.56	....
2,188.24	2,029.33	899.63	473.65	10,424.01	8,984.42	....	1,439.59
3,568.07	3,784.08	838.76	883.23	17,024.32	18,926.47	1,902.15	....
2,266.35	1,850.95	792.08	432.02	11,865.47	12,621.01	755.54	....
77,278.76	51,414.09	21,731.45	12,000.26	303,330.14	293,423.36	13,757.64	23,664.42

Note—For townships included in rural power districts see "Cost of Power" statement preceding.

GEORGIAN BAY

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1937, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1936		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Alliston	June 1918	1,840.78			1,840.78
Arthur	Dec. 1916	607.01			607.01
Barrie	April 1913	6,471.91			6,471.91
Beaverton	Nov. 1914	561.47			561.47
Beeton	Aug. 1918	920.68			920.68
Bradford	Oct. 1918	1,120.53			1,120.53
Brechin	Jan. 1915	218.54			218.54
Cannington	Nov. 1914	294.49			294.49
Chatsworth	Dec. 1915		64.65	64.65	
Chesley	July 1916	873.81			873.81
Coldwater	Mar. 1913	916.08			916.08
Collingwood	Mar. 1913	3,081.43			3,081.43
Cookstown	May 1918	319.57			319.57
Creemore	Nov. 1914	458.93			458.93
Dundalk	Dec. 1915	521.48			521.48
Durham	Dec. 1915	1,207.57			1,207.57
Elmvale	June 1913	203.26			203.26
Elmwood	April 1918	187.06			187.06
Flesherton	Dec. 1915	276.88			276.88
Grand Valley	Dec. 1916	214.51			214.51
Gravenhurst	Nov. 1915	1,901.79			1,901.79
Hanover	Sept. 1916	2,162.12			2,162.12
Holstein	May 1916	543.42			543.42
Huntsville	Sept. 1916	992.59			992.59
Kincardine	Mar. 1921		532.30	532.30	
Kirkfield	June 1920		5.60	5.60	
Lucknow	Jan. 1921	525.66			525.66
Markdale	Mar. 1916	451.04			451.04
Meaford	Jan. 1924	741.43			741.43
Midland	July 1911	5,205.84			5,205.84
Mildmay	Dec. 1932	426.22			426.22
Mount Forest	Dec. 1915	2,862.76			2,862.76
Neustadt	Dec. 1918	2,727.56			1,903.17
Orangeville	July 1916	1,899.01			1,899.01
Owen Sound	Dec. 1915	8,796.72			8,796.72
Paisley	Sept. 1923	333.46			333.46
Penetanguishene	July 1911	2,442.57			2,442.57
Port Elgin	Mar. 1931		338.26	338.26	
Port McNicoll	Jan. 1915	224.71			224.71
Port Perry	Sept. 1922	1,198.95			1,198.95
Priceville	Mar. 1920	115.41			115.41
Ripley	Jan. 1921	120.26			120.26
Rosseau	July 1931	250.77			250.77
Shelburne	July 1916	561.44			561.44
Southampton	Feb. 1931		212.46	212.46	

SYSTEM *G.B.—CREDIT OR CHARGE*

supplied to it to October 31, 1936, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1937

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1937		Accumulated amount standing as a credit or charge on October 31, 1937	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
30.06		1,179.42		1,209.48	
10.38		554.90		565.28	
109.48		3,097.97		3,207.45	
10.64		257.08		267.72	
17.08		341.51		358.59	
23.22		732.35		755.57	
3.86			74.29		70.43
4.84		137.21		142.05	
	1.32	451.78		450.46	
14.36		567.73		582.09	
15.16		1,180.50		1,195.66	
51.33		3,832.23		3,883.56	
5.57		174.99		180.56	
9.19		334.01		343.20	
9.36			85.20		75.84
21.40			245.65		224.25
3.47		310.25		313.72	
3.12		148.39		151.51	
5.64		102.41		108.05	
3.74		296.70		300.44	
33.96		1,287.20		1,321.16	
41.47		594.94		636.41	
8.76			136.13		127.37
16.53		473.76		490.29	
	8.93	1,909.38		1,900.45	
	0.16	35.59		35.43	
9.39		703.76		713.15	
9.19		213.91		223.10	
13.08		779.72		792.80	
87.86		2,233.01		2,320.87	
8.47		399.12		407.59	
52.40		313.29		365.69	
82.14		199.59		1,106.12	
31.01		357.10		388.11	
145.57		2,271.45		2,417.02	
5.74		540.64		546.38	
42.72		1,283.32		1,326.04	
	5.86		559.00		564.86
3.72		45.86		49.58	
27.45		436.79		464.24	
2.39		181.58		183.97	
2.39		129.63		132.02	
4.29		91.99		96.28	
11.14		83.18		94.32	
	4.03		255.26		259.29

GEORGIAN BAY

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1937, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1936		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Stayner	Oct. 1913	810.19			810.19
Sunderland	Nov. 1914	188.47			188.47
Tara	Feb. 1918	205.08			205.08
Teeswater	Dec. 1920		11.40	11.40	
Thornton	Nov. 1918	169.88			169.88
Tottenham	Oct. 1918	572.29			572.29
Uxbridge	Sept. 1922	943.20			943.20
Victoria Harbour	July 1914		115.48	115.48	
Walkerton	Feb. 1931	1,564.07			1,564.07
Waubaushene	Dec. 1914	350.02			350.02
Wiarton	May 1931	1,643.86			1,643.86
Windermere	June 1930	351.33			351.33
Wingham	Dec. 1920		315.33	315.33	
Woodville	Nov. 1914	190.92			190.92
Totals—Municipalities		61,769.03	1,595.48	1,595.48	60,944.64
RURAL POWER DISTRICTS					
Alliston R.P.D.	Nov. 1929	3,093.27		31.62	65.00
Arthur R.P.D.	Dec. 1929	132.41			
Bala R.P.D.	Jan. 1930		4,539.90	24.96	
Barrie R.P.D.	Aug. 1923	144.83		160.00	18.85
Baysville R.P.D.	July 1932		7,119.16	59.73	135.00
Beaumaris R.P.D.	June 1928	1,055.21		176.63	245.00
Beaverton R.P.D.	Oct. 1926		8,605.45		107.37
Beeton R.P.D.	Sept. 1926		1,079.24		
Bradford R.P.D.	Aug. 1929		5,048.97		195.10
Bruce R.P.D.	Oct. 1931	2,510.12			29.55
Buckskin R.P.D.	July 1928		2,433.44		2.02
Cannington R.P.D.	May 1924	1,853.12		7.83	
Chatsworth R.P.D.	Dec. 1928		20.86	8.33	
Cookstown R.P.D.	Dec. 1930	156.91			
Creemore R.P.D.	Dec. 1930		5,772.99	196.03	
Dundalk R.P.D.	Jan. 1936		106.70		
Elmvale R.P.D.	Jan. 1924	1,626.16			16.81
Flesherton R.P.D.	Feb. 1922		1,909.17	5.00	5.00
Gravenhurst R.P.D.	June 1929		250.88		0.27
Hawkestone R.P.D.	Aug. 1930		2,500.56		39.33
Holstein R.P.D.	Mar. 1929		239.03		
Huntsville R.P.D.	Aug. 1931		5,040.48		101.76
Innisfil R.P.D.	Feb. 1928	689.98			208.42
Kirkfield R.P.D.	June 1937				
Lucknow R.P.D.	Feb. 1924		84.66		

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*For townships included in rural power districts see "Cost of Power" statement preceding.

SYSTEM *G.B.—CREDIT OR CHARGE*

supplied to it to October 31, 1936, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1937

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1937		Accumulated amount standing as a credit or charge on October 31, 1937	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
14.58		430.49		445.07	
3.88			124.52		120.64
4.20		261.24		265.44	
	0.20	405.77		405.57	
2.83		37.59		40.42	
10.46		544.89		555.35	
15.71		455.82		471.53	
	2.13	54.00		51.87	
26.05		1,840.14		1,866.19	
6.36		211.55		217.91	
33.97		1,435.63		1,469.60	
9.14		313.04		322.18	
	5.39	1,655.42		1,650.03	
3.72		126.63		130.35	
1,122.47	28.02	36,036.45	1,480.05	37,917.92	1,442.68
121.13			287.27	2,893.75	
5.30		34.92		172.63	
	181.40		921.77		5,618.11
12.19		294.32		592.49	
	289.30	1,117.45			6,366.28
32.41		2,078.82		3,098.07	
	346.62		1,390.64		10,450.08
	43.17		294.04		1,416.45
	201.96		1,219.98		6,666.01
100.20		86.28		2,667.05	
	97.34		389.32		2,922.12
74.32			573.29	1,361.98	
	0.83	41.61		28.25	
6.28			72.54	90.65	
	225.80		1,038.52		6,841.28
	4.27		147.58		258.55
64.45		449.82		2,123.62	
	76.57		192.29		2,178.03
	10.05	254.33			6.87
	100.82		1,533.07		4,173.78
	9.56		53.44		302.03
	202.62		2,422.36		7,767.22
26.80		2,733.42		3,241.78	
			260.23		260.23
	3.39		174.37		262.42

GEORGIAN BAY

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1937, and the accumulated amount standing

Rural power district*	Date commenced operating	Net credit or charge at October 31, 1936		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Mariposa R.P.D.	Sept. 1923	14,384.63		55.00	15.28
Markdale R.P.D.	July 1924		3,208.40	2.77	
Meaford R.P.D.	Oct. 1928		278.55		4.27
Medonte R.P.D.	July 1930		2,592.33		97.34
Midland R.P.D.	Nov. 1930		2,047.27	10.00	62.03
Minden R.P.D.	Dec. 1935	86.18		14.62	
Neustadt R.P.D.	Nov. 1926		37.59		
Nottawasaga R.P.D.	Jan. 1922	2,611.52			4.12
Orangeville R.P.D.	Aug. 1927		4,286.54	30.32	85.00
Owen Sound R.P.D.	Mar. 1931		868.46	35.02	10.00
Port Perry R.P.D.	Dec. 1922		3,949.83		170.87
Ripley R.P.D.	Feb. 1922		2,557.32		24.22
Sauble R.P.D.	Oct. 1931		1,895.13	31.55	40.00
Shelburne R.P.D.	Feb. 1926		5,779.99	115.64	
South Falls R.P.D.	Jun. 1937				
Sparrow Lake R.P.D.	Oct. 1925	177.37			247.15
Tara R.P.D.	Jan. 1925		1,776.82	73.91	50.00
Thornton R.P.D.	Aug. 1930		2,059.10	42.15	75.00
Tottenham R.P.D.	April 1936		32.77		
Utterson R.P.D.	June 1930	1,518.75		20.00	52.35
Uxbridge R.P.D.	Sept. 1925		10,535.12		211.65
Wasaga Beach R.P.D.	July 1923	19,408.39		348.55	
Wroxeter R.P.D.	Feb. 1929		288.84	90.00	39.42
Totals—Rural power districts		49,448.85	86,945.55	1,539.66	2,358.18
Totals—Municipalities		61,769.03	1,595.48	1,595.48	60,944.64
Totals–Rural power districts		49,448.85	86,945.55	1,539.66	2,358.18
Grand totals		111,217.88	88,541.03	3,135.14	63,302.82

*For townships included in rural power districts see "Cost of Power" statement preceding.

SYSTEM *G.B.—CREDIT OR CHARGE*

supplied to it to October 31, 1936, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1937

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1937		Accumulated amount standing as a credit or charge on October 31, 1937	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
577.59		2,531.73		17,533.67	
	128.34		900.41		4,234.38
	11.14		10.33		304.29
	105.89		1,732.44		4,528.00
	81.49		1,401.13		3,581.92
3.45			540.64		436.39
	1.50		17.77		56.86
104.46		5.12		2,716.98	
	174.86		1,167.38		5,683.46
	35.14		1,433.34		2,311.92
	161.59	517.77			3,764.52
	102.69		831.37		3,515.60
	77.41		116.06		2,097.05
	227.60		1,142.81		7,034.76
			6.13		6.13
5.49		550.80		486.51	
	73.07		1,181.83		3,007.81
	85.36		474.33		2,651.64
	1.31		298.15		332.23
61.55		403.56		1,951.51	
	425.20		1,439.59		12,611.56
785.74		1,902.15		22,444.83	
	7.95	755.54		509.33	
1,981.36	3,494.24	13,757.64	23,664.42	61,913.10	111,647.98
1,122.47	28.02	36,036.45	1,480.05	37,917.92	1,442.68
1,981.36	3,494.24	13,757.64	23,664.42	61,913.10	111,647.98
3,103.83	3,522.26	49,794.09	25,144.47	99,831.02	113,090.66

GEORGIAN BAY SYSTEM *G.B.—SINKING FUND*

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1937

Municipality	Period of years ending Oct. 31, 1937	Amount	Municipality	Period of years ending Oct. 31, 1937	Amount
		$ c.			$ c.
Alliston	14 years	17,703.35	Stayner	19 years	12,943.81
Arthur	16 “	15,739.92	Sunderland	18 “	8,423.71
Barrie	19 “	113,723.29	Tara	14 “	6,734.91
Beaverton	18 “	16,837.64	Teeswater	13 “	9,586.49
Beeton	14 “	12,672.24	Thornton	14 “	2,662.05
Bradford	14 “	14,428.01	Tottenham	14 “	8,427.27
Brechin	18 “	6,428.21	Uxbridge	13 “	13,722.60
Cannington	18 “	12,730.55	Victoria Harbour	18 “	5,278.78
Chatsworth	17 “	3,432.20	Walkerton	7 “	10,825.61
Chesley	16 “	28,495.72	Waubaushene	18 “	3,138.64
Coldwater	19 “	11,725.59	Wiarton	7 “	8,754.09
Collingwood	19 “	111,159.57	Windermere	8 “	1,660.73
Cookstown	14 “	4,137.43	Wingham	13 “	28,052.12
Creemore	18 “	9,592.55	Woodville	18 “	8,298.89
Dundalk	17 “	9,722.37			
			Total—Municipalities		$1,301,000.37
Durham	17 “	25,283.16			
Elmvale	19 “	12,445.69			
Elmwood	14 “	3,211.63			
Flesherton	17 “	5,409.34	RURAL POWER DISTRICTS		
Grand Valley	16 “	9,606.44			
Gravenhurst	17 “	20,468.95	**Alliston** R.P.D.	8 years	4,574.80
Hanover	16 “	65,836.77	**Arthur** R.P.D.	8 “	327.03
Holstein	16 “	2,160.65	**Bala** R.P.D.	8 “	6,078.48
Huntsville	16 “	45,793.73	**Barrie** R.P.D.	15 “	14,690.99
Kincardine	13 “	31,664.72	**Baysville** R.P.D.	6 “	3,492.15
Kirkfield	13 “	2,554.26	**Beaumaris** R.P.D.	10 “	8,287.41
Lucknow	13 “	15,007.73	**Beaverton** R.P.D.	12 “	6,715.08
Markdale	16 “	7,906.55	**Beeton** R.P.D.	12 “	289.66
Meaford	13 “	21,886.41	**Bradford** R.P.D.	9 “	2,966.93
Midland	19 “	176,453.92	**Bruce** R.P.D.	7 “	5,487.21
Mildmay	5 “	1,639.82	**Buckskin** R.P.D.	10 “	964.42
Mount Forest	17 “	24,969.87	**Cannington** R.P.D.	14 “	4,379.63
Neustadt	14 “	5,433.59	**Chatsworth** R.P.D.	9 “	511.53
Orangeville	16 “	33,910.91	**Cookstown** R.P.D.	7 “	64.41
Owen Sound	17 “	158,806.78	**Creemore** R.P.D.	7 “	3,210.46
Paisley	13 “	8,500.33	**Dundalk** R.P.D.	2 “	94.71
Penetanguishene	21 “	50,829.08	**Elmvale** R.P.D.	14 “	4,021.82
Port Elgin	7 “	6,380.58	**Flesherton** R.P.D.	16 “	815.37
Port McNicoll	18 “	4,976.53	**Gravenhurst** R.P.D.	9 “	1,107.13
Port Perry	13 “	12,977.59	**Hawkestone** R.P.D.	8 “	2,342.67
Priceville	13 “	746.34	**Holstein** R.P.D.	9 “	83.01
Ripley	13 “	5,960.98	**Huntsville** R.P.D.	7 “	3,267.15
Rosseau	7 “	2,260.22	**Innisfil** R.P.D.	10 “	11,630.71
Shelburne	16 “	15,107.81	**Kirkfield** R.P.D.	1 “	49.58
Southampton	7 “	5,771.65	**Lucknow** R.P.D.	12 “	74.42

Note—For townships included in rural power districts see “Cost of Power” statement preceding.

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1937

Rural power district*	Period of years ending Oct. 31, 1937	Amount
		$ c.
Mariposa R.P.D.	15 years	11,901.88
Markdale R.P.D.	14 “	2,110.31
Meaford R.P.D.	9 “	230.83
Medonte R.P.D.	8 “	1,593.58
Midland R.P.D.	7 “	2,392.64
Minden R.P.D.	2 “	111.57
Neustadt R.P.D.	11 “	81.32
Nottawasaga R.P.D.	16 “	3,620.40
Orangeville R.P.D.	11 “	3,301.28
Owen Sound R.P.D.	7 “	1,281.38
Port Perry R.P.D.	15 “	8,186.41
Ripley R.P.D.	12 “	822.49
Sauble R.P.D.	7 “	891.91
Shelburne R.P.D.	12 “	2,114.76
South Falls R.P.D.	1 “	5.35
Sparrow Lake R.P.D.	13 years	8,185.31
Tara R.P.D.	13 “	4,020.86
Thornton R.P.D.	8 “	1,018.84
Tottenham R.P.D.	2 “	62.70
Utterson R.P.D.	8 “	3,684.36
Uxbridge R.P.D.	13 “	8,147.90
Wasaga Beach R.P.D.	15 “	14,296.34
Wroxeter R.P.D.	8 “	8,492.21
Totals—Rural power districts		$ 172,081.39
Totals—Municipalities		$1,301,000.37
Totals—Rural power districts		172,081.39
Grand total		$1,473,081.76

Note—For townships included in rural power districts see “Cost of Power” statement preceding.

GEORGIAN BAY SYSTEM—RURAL LINES

Statement showing Interest, Depreciation and Obsolescence, Contingencies and Sinking Fund charged by the Commission to the Municipalities which operate the respective rural lines for the year ending October 31, 1937

Operated by	Capital cost	Interest	Provision for depreciation and obsolescence	Provision for contingencies	Provision for sinking fund	Total interest, depreciation and obsolescence, contingencies and sinking fund charged
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Brechin	922.02	48.22	18.44	9.22	16.60	92.48
Flesherton	1,928.15	108.17	38.56	19.28	34.71	200.72
Totals	2,850.17	156.39	57.00	28.50	51.31	293.20

GEORGIAN BAY SYSTEM—RURAL LINES

Statement showing the total Sinking Fund paid in respect of each line, together with interest allowed thereon to October 31, 1937

Lines operated by	Period of years ending October 31, 1937	Amount
		$ c.
Brechin	19 years	425.89
Flesherton	20 years	779.67
Total		1,205.56

EASTERN ONTARIO

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual Cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating		
	To Oct. 31 1936	To Oct. 31 1937			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
	$ c.	$ c.	$ c.		$ c.	$ c.	$ c.
Alexandria	58.50	55.00	80,317.06	180.7	1,189.74	1,602.90	3,603.37
Apple Hill	50.50	44.00	12,182.72	39.0	256.78	446.98	543.72
Athens	50.50	45.00	29,406.61	89.5	589.27	828.57	1,273.20
Bath	72.00	66.00	16,707.83	31.1	204.76	368.64	738.63
Belleville	32.00	28.00	911,862.57	4,845.4	31,902.33	33,137.14	38,249.18
Bloomfield	52.00	47.00	29,029.00	82.5	543.18	1,378.37	1,264.76
Bowmanville	35.00	31.00	438,505.42	2,079.8	13,693.50	15,704.68	18,562.17
Brighton	38.00	32.00	55,314.70	245.1	1,613.75	2,066.76	2,352.73
Brockville	30.00	26.00	488,275.88	3,101.3	20,419.10	18,734.81	21,441.09
Cardinal	34.50	29.00	34,361.99	210.9	1,388.57	1,800 23	1,509.14
Carleton Place	33.50	29.00	261,263.96	1,442.8	9,499.46	8,528.84	11,511.02
Chesterville	39.50	34.00	45,995.58	216.0	1,422.15	1,730.59	2,035.87
Cobden	70.00	65.00	27,043.61	57.4	377.92	1,121.50	1,212.75
Cobourg	35.00	31.00	310,362.16	1,508.0	9,928.74	12,568.44	13,114.38
Colborne	37.50	33.00	32,137.65	140.2	923.08	1,151.38	1,368.33
Deseronto	53.00	45.00	44,557.82	129.2	850.66	1,326.00	1,939.81
Finch	55.00	47.00	19,382.73	64.3	423.35	590.72	864.50
Hastings	46.50	42.00	25,966.83	85.5	562.94	848.67	1,123.75
Havelock	51.00	46.50	48,629.64	134.0	882.26	1,321.43	2,121.49
Kemptville	39.00	35.00	75,954.07	333.8	2,197.75	2,366.75	3,367.54
Lakefield	44.00	39.00	70,382.54	267.7	1,762.55	2,099.97	3,022.48
Lanark	43.00	40.00	22,427.92	80.4	529.36	660.20	998.85
Lancaster	71.50	62.00	17,589.34	36.5	240.32	544.76	789.88
Lindsay	38.00	34.00	442,001.63	1,997.8	13,153.60	17,585.12	18,775.16
Madoc	43.50	40.50	42,721.19	158.5	1,043.57	2,180.15	1,837.37
Marmora	43.50	40.50	27,039.29	102.2	672.89	1,005.63	1,161.69
Martintown	46.50	43.50	6,989.69	28.2	185.67	476.82	310.53
Maxville	55.50	51.00	31,556.80	87.4	575.45	871.83	1,411.71
Napanee	35.50	30.00	211,621.26	1,041.3	6,855.97	7,299.81	8,935.10
Newcastle	35.50	32.50	25,910.71	114.9	756.51	1,036.69	1,101.97
Norwood	40.50	35.50	20,947.79	89.3	587.96	955.36	893.31
Oshawa	34.50	30.50	2,825,929.95	13,470.6	88,691.02	98,385.51	119,197.72
Ottawa	23.50	20.50	937,257.23	8,884.0	58,492.65	47,036.13	40,381.97
Ottawa	......	......	964.71	19,036.3	209,398.76	129.28	43.81
Perth	31.00	28.00	229,746.40	1,353.3	8.910.19	8,270.61	10,101.57
Peterborough	30.00	26.00	1,443,530.38	8,168.5	53,781.76	48,376.95	60,248.31
Picton	44.00	39.50	242,787.95	827.5	5,448.30	9,063.82	10,496.91
Port Hope	36.50	32.50	295,916.23	1,471.1	9,685.79	13,831.12	12,482.29
Prescott	29.50	26.50	128,556.48	867.1	5,709.02	5,619.14	5,627.00
Richmond	55.00	52.00	16,614.72	45.1	296.94	390.27	727.02

SYSTEM *E.O.—COST OF POWER*

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of Power supplied to it in the year ending October 31, 1937

costs and fixed charges				Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,382.45	252.02	632.45	806.18	60.20	9,529.31	10,399.14	869.83
195.34	45.17	136.50	119.75	12.99	1,757.23	1,895.28	138.05
459.47	94.78	313.25	280.70	29.82	3,869.06	4,394.27	525.21
268.32	48.37	108.85	166.22	10.36	1,914.15	2,176.65	262.50
7,972.30	2,858.71	16,958.90	8,083.75	1,614.22	140,776.53	150,122.52	9,345.99
405.90	87.54	288.75	279.88	27.48	4,275.86	4,157.49	(118.37)
4,366.26	1,360.82	7,279.30	3,966.98	692.88	65,626.59	70,659.12	5,032.53
587.31	186.77	857.85	505.80	81.65	8,252.62	8,869.04	616.42
5,935.22	1,866.94	10,854.55	4,469.12	1,033.18	84,754.01	89,776.65	5,022.64
426.11	140.46	738.15	315.76	70.26	6,388.68	6,930.21	541.53
3,466.42	980.07	5,049.80	2,435.28	480.66	41,951.55	46,604.29	4,652.74
652.28	168.07	756.00	437.05	71.96	7,273.97	8,229.54	955.57
470.29	88.23	200.90	94.06	19.12	3,584.77	3,947.84	363.07
3,014.15	988.02	5,278.00	2,796.47	502.38	48,190.58	51,124.95	2,934.37
345.87	108.95	490.70	294.55	46.71	4,729.57	5,090.35	360.78
617.67	161.64	452.20	428.83	43.04	5,819.85	6,558.79	738.94
307.99	65.91	225.05	190.02	21.42	2,688.96	3,395.82	706.86
338.32	84.95	299.25	246.70	28.48	3,533.06	3,870.98	337.92
688.87	152.98	469.00	470.17	44.64	6,150.84	6,679.98	529.14
1,112.16	270.28	1,168.30	726.73	111.20	11,320.71	12,680.93	1,360.22
840.85	215.02	936.95	657.42	89.18	9,624.42	11,440.45	1,816.03
350.55	80.63	281.40	218.57	26.78	3,146.34	3,396.29	249.95
306.56	56.14	127.75	177.22	12.16	2,254.79	2,521.83	267.04
4,610.17	1,334.35	6,992.30	4,029.63	665.56	67,145.89	73,756.83	6,610.94
518.91	137.52	554.75	400.34	52.80	6,725.41	6,771.04	45.63
324.45	94.84	357.70	252.79	34.05	3,904.04	4,366.39	462.35
104.86	26.05	98.70	67.44	9.39	1,279.46	1,287.68	8.22
522.84	104.84	305.90	313.15	29.12	4,134.84	4,756.09	621.25
2,028.21	674.84	3,644.55	1,903.05	346.90	31,688.43	35,317.40	3,628.97
274.90	84.26	402.15	236.90	38.28	3,931.66	3,970.16	38.50
229.88	73.30	312.55	192.66	29.75	3,274.77	3,510.88	236.11
27,827.42	8,486.40	47,147.10	25,455.49	4,487.67	419,678.33	453,033.13	33,354.80
7,726.37	3,883.19	31,094.00	7,924.63	2,959.66	199,498.60	202,231.66	2,733.06
19.29	4.82	....	10.16	....	209,606.12	209,606.12	....
2,945.17	882.30	4,736.55	2,123.00	450.85	38,420.24	40,853.64	2,433.40
11,575.80	4,177.97	28,589.75	12,646.36	2,721.30	222,118.20	235,941.96	13,823.76
3,107.38	713.73	2,896.25	2,299.76	275.68	34,301.83	35,436.73	1,134.90
2,803.36	925.71	5,148.85	2,655.89	490.09	48,023.10	52,118.03	4,094.93
1,497.49	502.91	3,034.85	1,164.26	288.88	23,443.55	24,862.72	1,419.17
269.09	51.58	157.85	161.26	15.02	2,069.03	2,447.55	378.52

EASTERN ONTARIO

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual Cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Share of operating		
	To Oct. 31 1936	To Oct. 31 1937			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
	$ c.	$ c.	$ c.		$ c.	$ c.	$ c.
Russell	61.50	50.00	17,488.91	49.7	327.23	571.65	782.08
Smiths Falls	28.00	25.00	284,917.73	1,971.8	12,982.42	11,808.89	12,438.58
Stirling	30.00	27.00	43,470.26	247.8	1,631.53	1,739.75	1,813.39
Trenton	27.50	24.00	512,021.95	3,179.6	20.934.63	17,336.66	21,189.90
Tweed	55.50	52.00	64,583.10	189.8	1,249.65	2,652.14	2,842.94
Warkworth	45.50	40.00	19,496.87	67.4	443.76	602.20	841.73
Wellington	41.50	38.00	51,929.17	191.0	1,257.55	1,804.99	2,234.19
Westport	70.00	62.00	37,159.81	75.0	493.80	637.07	1,669.28
Whitby	34.50	30.50	224,018.19	1,060.5	6,982.38	7,769.71	9,486.69
Williamsburg	32.50	28.00	28,435.89	167.9	1,105.46	1,365.36	1,250.18
Winchester	36.00	31.00	51,138.57	265.6	1,748.72	2,009.30	2,257.24
Totals—Municipalities			11,362,410.49	80,610.3	614,804.70	421,740.29	483,548.28
RURAL POWER DISTRICTS							
Alexandria R.P.D.—Hawkesbury E., Kenyon and Lochiel twps.			18,291.14	39.8	262.04	337.62	820.94
Arnprior R.P.D.—Fitzroy, McNab, March and Pakenham twps.			7,986.89	52.8	347.64	303.53	349.75
Belleville R.P.D.—Huntingdon, Sidney, Thurlow and Tyendinaga twps.			75,122.72	387.9	2,553.96	2,698.16	3,159.97
Bowmanville R.P.D.—Darlington twp.			26,151.93	120.6	794.04	965.66	1,109.28
Brighton R.P.D.—Brighton, Cramahe and Murray twps.			5,280.97	23.4	154.07	164.70	224.60
Brockville R.P.D.—Augusta, Elizabethtown, Escott Front, Leeds and Lansdowne Front, Leeds and Lansdowne Rear, Yonge and Escott Rear and Yonge Front twps.			65,757.32	364.4	2,399.23	2,306.54	2,732.49
Campbellford R.P.D.—Rawdon and Seymour twps.			13,639.44	77.2	508.29	422.98	569.31
Carleton Place R.P.D.—Ramsay twp.			....	....	26.24	....	....
Chesterville R.P.D.—Cambridge, Finch, Mountain, Osgoode, Osnabruck, Russell, Williamsburg and Winchester twps.			66,603.19	286.4	1,885.67	2,165.49	2,954.48
Cobourg R.P.D.—Alnwick, Haldimand, Hamilton and Hope twps.			62,645.16	299.5	1,971.92	2,144.37	2,650.23

SYSTEM *E.O.—COST OF POWER*

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of Power supplied to it in the year ending October 31, 1937

costs and fixed charges							
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund	Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
288.20	57.75	173.95	173.28	16.56	2,390.70	2,903.46	512.76
3,287.32	1,125.08	6,901.30	2,564.72	656.90	51,765.21	53,658.97	1,893.76
344.86	127.30	867.30	380.33	82.55	6,987.01	7,247.84	260.83
3,509.89	1,486.31	11,128.60	4,398.21	1,059.27	81,043.47	84,550.45	3,506.98
904.42	193.42	664.30	628.41	63.23	9,198.51	10,359.90	1,161.39
247.27	62.94	235.90	184.24	22.45	2,640.49	2,973.78	333.29
634.16	160.57	668.50	487.08	63.63	7,310.67	7,718.89	408.22
651.77	121.79	262.50	374.88	24.99	4,236.08	5,082.77	846.69
2,235.96	646.67	3,711.75	2,027.83	353.30	33,214.29	35,428.13	2,213.84
360.68	115.54	587.65	262.68	55.94	5,103.49	5,237.93	134.44
693.68	197.66	929.60	480.34	88.48	8,405.02	9,198.95	793 93
114,054.46	36,816.11	215,509.00	101,965.98	20,513.07	2,008,951.89	2,129,551.49	120,717.97 (118.37)
316.51	58.52	139.30	183.89	13.26	2,132.08	2,132.08	see page 265
95.37	29.25	184.80	45.44	17.59	1,373.37	1,373.37	"
681.34	239.53	1,357.65	669.85	129.23	11,489.69	11,489.69	"
267.68	82.54	422.10	237.66	40.18	3,919.14	3,919.14	"
56.07	17.83	81.90	48.28	7.80	755.25	755.25	"
791.25	239.66	1,275.40	574.54	121.40	10,440.51	10,440.51	"
109.38	42.27	270.20	119.50	25.72	2,067.65	2,067.65	"
....	....	....	....	....	26.24	26.24	"
977.21	241.85	1,002.40	638.64	95.42	9,961.16	9,961.16	"
618.72	201.12	1,048.25	565.98	99.78	9,300.37	9,300.37	"

EASTERN ONTARIO

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual Cost

Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating		
			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
	$ c.		$ c.	$ c.	$ c.
Colborne R.P.D.—Cramahe and Haldimand twps.	28,612.12	119.1	784.16	859.92	1,221.96
Fenelon Falls R.P.D.—Bexley, Fenelon, Laxton, Digby, Longford, Ops, Somerville and Verulam twps.	46,044.83	190.0	1,250.97	1,679.33	1,967.64
Iroquois R.P.D.—Gower S., Matilda, Mountain, Oxford, Williamsburg and Winchester twps.	60,980.59	483.1	3,180.75	2,567.47	2,651.30
Kemptville R.P.D.—Oxford twp.	6,519.83	26.7	175.79	277.52	289.53
Kingston R.P.D.—Bedford, Ernestown, Hinchinbrooke, Kingston, Leeds and Lansdowne Front, Leeds and Lansdowne Rear, Loughborough, Oso, Pittsburgh, Portland and Storrington twps.	112,585.80	554.2	4,950.81	3,513.94	4,597.95
Lakefield R.P.D.—Burleigh and Anstruther, Douro, Harvey and Smith twps.	15,939.94	68.3	449.69	452.82	679.53
Marmora R.P.D.—Marmora and Lake twps.	767.26	2.9	19.09	21.30	32.97
Martintown R.P.D.—Charlottenburg and Lancaster twps.	21,902.06	78.5	516.85	921.17	975.41
Maxville R.P.D.—Caledonia, Kenyon, Plantagenet N., Plantagenet S. and Roxborough twps.	74,989.99	216.7	1,426.76	1,852.85	3,352.58
Millbrook R.P.D.—Cavan, Manvers and Monaghan S. twps.	15,462.87	53.8	354.22	551.13	667.29
Napanee R.P.D.—Adulphustown, Camden E., Ernestown, Fredericksburg N., Fredericksburg S., Hungerford, Portland, Richmond, Sheffield and Tyendinaga twps.	63,894.27	263.8	1,736.87	1,709.00	2,730.67
Nepean R.P.D.—Clarence, Cumberland, Gloucester, Goulburn, Gower N., March, Marlborough, Nepean and Osgoode twps.	103,898.01	785.7	5,173.08	4,028.28	4,238.27
Newcastle R.P.D.—Clarke, Darlington and Manvers twps.	18,577.37	71.9	473.39	555.72	796.93
Norwood R.P.D.—Asphodel, Belmont and Methuen, Dummer, Percy and Seymour twps.	12,305.37	38.5	253.49	463.40	533.84
Omemee R.P.D.—Emily and Ops twps.	1,275.71	5.0	32.92	34.55	54.69

SYSTEM *E.O.—COST OF POWER*

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of Power supplied to it in the year ending October 31, 1937

costs and fixed charges				Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	
320.05	99.10	416.85	264.03	39.68	4,005.75	4,005.75	see page 265
518.61	145.48	665.00	425.44	63.30	6,715.77	6,715.77	"
621.30	236.31	1,690.85	536.51	160.94	11,645.43	11,645.43	"
97.84	23.84	93.45	62.81	8.89	1,029.67	1,029.67	"
1,111.90	336.65	1,745.10	985.33	166.11	17,407.79	17,407.79	"
174.19	46.87	239.05	146.50	22.75	2,211.40	2,211.40	"
9.21	2.69	10.15	7.17	0.97	103.55	103.55	"
340.78	77.54	274.75	213.45	26.15	3,346.10	3,346.10	"
1,231.30	257.16	758.45	742.22	72.19	9,693.51	9,693.51	"
195.35	53.10	188.30	146.00	17.92	2,173.31	2,173.31	"
719.51	203.99	923.30	590.40	87.89	8,701.63	8,701.63	"
976.99	414.05	2,749.95	855.47	261.75	18,697.84	18,697.84	"
219.30	61.88	251.65	173.13	23.95	2,555.95	2,555.95	"
164.60	40.94	134.75	117.54	12.83	1,721.39	1,721.39	"
14.93	4.26	17.50	11.88	1.67	172.40	172.40	"

EASTERN ONTARIO

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual Cost

Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating		
			Cost of power purchased	Operating, maintenance and administrative expenses	Interest
	$ c.		$ c.	$ c.	$ c.
Oshawa R.P.D.—Darlington, Pickering, Uxbridge, Whitby and Whitby E. twps.	194,161.41	911.6	6,002.02	8,578.81	8,207.57
Perth R.P.D.—Bathurst, Burgess N., Crosby N., Dalhousie and Sherbrooke N., Drummond, Elmsley N. and Elmsley S. twps.	11,570.61	49.1	323.28	381.22	513.41
Peterborough R.P.D.—Cavan, Douro, Monaghan N., Monaghan S., Otonabee and Smith twps.	118,280.79	640.3	4,215.76	4,536.55	4,955.54
Prescott R.P.D. — Augusta, Edwardsburg, and Matilda twps.	23,916.56	149.7	985.64	1,532.38	1,049.68
Renfrew R.P.D.—Admaston, Bromley, Horton, Ross and Westmeath twps.	23,421.34	70.4	463.52	993.83	1,044.75
Smiths Falls R.P.D.—Bastard and Burgess S., Crosby S., Kitley, Montague and Wolford twps.	46,432.66	230.9	1,520.26	1,452.22	2,051.55
Stirling R.P.D.—Rawdon and Sidney twps.	9,975.40	52.1	343.03	484.76	419.22
Sulphide R.P.D.—Hungerford twp.	1,363.55	4.6	30.29	75.43	59.76
Trenton R.P.D.—Brighton, Murray and Sidney twps.	21,568.98	116.2	765.07	767.24	904.16
Warkworth R.P.D. — Brighton, Percy and Seymour twps.	1,441.10	6.6	43.45	42.71	61.15
Wellington R.P.D.—Ameliasburg, Athol, Hallowell, Hillier, Marysburgh S., Murray and Sophiasburg twps.	74,579.51	268.1	1,765.18	2,633.50	3,213.51
Williamsburg R.P.D.—Matilda, Osnabruck, Williamsburg and Winchester twps.	14,531.28	85.8	564.91	620.43	638.87
Totals—Rural power districts	1,466,477.97	7,195.6	48,704.35	53,096.53	62,480.78
Totals—Municipalities	11,362,410.49	80,610.3	614,804.70	421,740.29	483,548.28
Totals—Rural power districts	1,466,477.97	7,195.6	48,704.35	53,096.53	62,480.78
Totals—Companies	5,054,929.17	26,186.7	172,779.37	173,515.44	216,634.97
Totals—Local electric distribution systems	569,037.09	1,906.1	12,549.84	42,539.04	24,980.99
Totals—Local gas distribution system	26,413.01	....	....	15,216.86	1,199.62
Totals—Pulp mill	347,555.52	1,763.0	11,607.67	12,219.04	14,723.34
	18,826,823.25				
Non-operating capital	105,998.23				
Grand totals	18,932,821.48	117,661.7	860,445.93	718,327.20	803,567.98

SYSTEM *E.O.—COST OF POWER*

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of Power supplied to it in the year ending October 31, 1937

costs and fixed charges				Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	
1,945.28	578.66	3,190.60	1,755.36	303.69	30,561.99	30,561.99	see page 265
171.55	48.12	171.85	111.08	16.36	1,736.87	1,736.87	"
1,009.93	352.91	2,241.05	1,045.29	213.31	18,570.34	18,570.34	"
292.97	95.47	523.95	219.14	49.87	4,749.10	4,749.10	"
381.86	77.86	246.40	90.12	23.45	3,321.79	3,321.79	"
646.94	192.00	808.15	438.28	76.92	7,186.32	7,186.32	"
89.21	30.95	182.35	88.76	17.36	1,655.64	1,655.64	"
17.89	4.18	16.10	13.11	1.53	218.29	218.29	"
185.41	68.67	406.70	190.81	38.72	3,326.78	3,326.78	"
14.86	4.99	23.10	13.11	2.20	205.57	205.57	"
924.25	233.71	938.35	701.65	89.32	10,499.47	10,499.47	"
184.32	59.04	300.30	134.23	28.58	2,530.68	2,530.68	"
16,493.86	4,902.99	24,990.00	13,162.60	2,378.68	226,209.79	226,209.79	"
114,054.46	36,816.11	215,509.00	101,965.98	20,513.07	2,008,951.89	2,129,551.49	120,717.97 (118.37)
16,493.86	4,902.99	24,990.00	13,162.60	2,378.68	226,209.79	226,209.79	....
51,498.65	16,034.32	....	52,553.94	(32,307.55)	650,709.14	650,709.14	....
8,131.39	1,303.62	....	2,289.39	16,449.86	108,244.13	108,244.13	....
....	....	....	....	(2,546.46)	13,870.02	13,870.02	....
2,168.00	881.63	....	2,555.50	(4,487.60)	39,667.58	39,667.58	....
192,346.36	59,938.67	240,499.00	172,527.41	....	3,047,652.55	3,168,252.15	120,717.97 (118.37)

EASTERN ONTARIO SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged (by annual adjustment) of the actual costs

Rural power district	Total capital cost of each district, Provincial Government grant received and applied there against, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	$ c.	$ c.	$ c.	$ c.
Alexandria R.P.D.	53,548.07	26,610.15	26,937.92	2,132.08
Arnprior R.P.D.	19,544.23	9,528.48	10,015.75	1,373.37
Belleville R.P.D.	205,950.85	102,267.73	103,683.12	11,489.69
Bowmanville R.P.D.	68,536.28	34,268.14	34,268.14	3,919.14
Brighton R.P.D.	22,974.75	11,487.38	11,487.37	755.25
Brockville R.P.D.	*264,839.21	128,708.02	136,131.19	10,440.51
Campbellford R.P.D.	54,690.70	27,345.35	27,345.35	2,067.65
Carleton Place R.P.D.	1,559.43	779.71	779.72	26.24
Chesterville R.P.D.	*171,559.35	82,857.02	88,702.33	9,961.16
Cobourg R.P.D.	248,805.13	123,666.35	125,138.78	9,300.37
Colborne R.P.D.	84,074.95	42,037.48	42,037.47	4,005.75
Fenelon Falls R.P.D.	157,327.33	78,204.32	79,123.01	6,715.77
Iroquois R.P.D.	198,284.21	98,798.75	99,485.46	11,645.43
Kemptville R.P.D.	11,989.89	5,848.12	6,141.77	1,029.67
Kingston R.P.D.	410,774.03	200,933.70	209,840.33	17,407.79
Lakefield R.P.D.	*70,645.04	35,211.85	35,433.19	2,211.40
Marmora R.P.D.	6,009.24	3,004.62	3,004.62	103.55
Martintown R.P.D.	56,246.50	28,123.25	28,123.25	3,346.10
Maxville R.P.D.	141,305.38	70,652.69	70,652.69	9,693.51
Millbrook R.P.D.	44,545.14	21,988.67	22,556.47	2,173.31
Napanee R.P.D.	*331,628.77	162,582.59	169,046.18	8,701.63
Nepean R.P.D.	*406,680.76	199,081.65	207,599.11	18,697.84
Newcastle R.P.D.	*46,764.22	22,451.41	24,312.81	2,555.95
Norwood R.P.D.	*42,895.40	21,120.86	21,774.54	1,721.39
Omemee R.P.D.	7,909.34	3,954.67	3,954.67	172.40
Oshawa R.P.D.	372,875.63	182,918.83	189,956.80	30,561.99
Perth R.P.D.	41,040.36	20,520.18	20.520.18	1,736.87
Peterborough R.P.D.	*231,738.60	114,858.61	116,879.99	18,570.34
Prescott R.P.D.	96,998.30	48,318.05	48,680.25	4,749.10
Renfrew R.P.D.	*61,870.59	28,320.89	33,549.70	3,321.79
Smiths Falls R.P.D.	*170,493.32	82,385.53	88,107.79	7,186.32
Sterling R.P.D.	*58,988.66	27,117.59	31,871.07	1,655.64
Sulphide R.P.D.	18,592.56	9,296.28	9,296.28	218.29
Trenton R.P.D.	*121,400.26	60,513.36	60,886.90	3,326.78
Warkworth R.P.D.	*19,922.48	9,634.39	10,288.09	205.57
Wellington R.P.D.	*258,357.53	128,551.29	129,806.24	10,499.47
Williamsburg R.P.D.	65,551.91	32,775.95	32,775.96	2,530.68
Total capital	4,646,918.40	2,286,723.91	2,360,194.49	
Non-operating capital	84,967.84	42,336.06	42,631.78	
Grand totals	4,731,886.24	2,329,059.97	2,402,826.27	226,209.79

Note—Items marked * include portions of transmission lines aggregating $33,299.68 used for purposes of rural power districts.

RURAL POWER DISTRICTS *E.O.—RURAL OPERATING*

District, the revenues collected from (or charged to) customers within each District, the Municipalities comprising certain other Districts upon ascertainment in the year ending October 31, 1937

Distribution costs and fixed charges				Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest	Provision for depreciation and obsolescence	Sinking fund			Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,445.91	844.78	364.84	193.79	4,981.40	4,226.11	....	755.29
825.99	376.16	159.08	86.30	2,820.90	3,265.87	444.97	....
7,418.05	4,011.42	1,733.84	920.25	25,573.25	26,919.95	1,346.70	....
1,666.22	1,334.77	581.59	306.20	7,807.92	8,887.87	1,079.95	....
441.96	447.21	194.86	102.59	1,941.87	2,264.85	322.98	....
10,171.24	5,919.89	2,505.97	1,358.06	30,395.67	33,895.06	3,499.39	....
2,470.54	962.00	419.17	220.69	6,140.05	4,028.01	....	2,112.04
126.08	24.15	10.52	5.54	192.53	50.58	....	141.95
4,510.74	3,229.72	1,349.41	740.91	19,791.94	20,554.95	763.01	....
6,531.14	5,193.94	2,248.53	1,191.52	24,465.50	23,469.57	....	995.93
2,931.20	1,663.00	724.60	381.50	9,706.05	9,047.79	....	658.26
4,700.39	3,130.96	1,355.13	718.26	16,620.51	16,879.92	259.41	....
4,854.82	4,218.28	1,831.19	967.70	23,517.42	26,948.08	3,430.66	....
314.00	274.47	116.69	62.96	1,797.79	1,941.50	143.71	....
14,319.13	8,174.60	3,427.69	1,875.30	45,204.51	45,314.42	109.91	....
1,458.63	1,394.07	605.23	319.81	5,989.14	5,626.72	....	362.42
156.54	128.46	55.97	29.47	473.99	514.13	40.14	....
2,512.04	1,222.37	532.61	280.42	7,893.54	7,158.70	....	734.84
4,572.46	3,122.34	1,360.46	716.29	19,465.06	17,748.08	....	1,716.98
1,110.26	923.64	396.83	211.89	4,815.93	5,308.78	492.85	....
6,752.36	6,229.50	2,635.87	1,429.09	25,748.45	24,366.27	....	1,382.18
12,675.44	8,895.10	3,791.48	2,040.59	46,100.45	49,232.35	3,131.90	....
1,406.79	1,075.59	450.24	246.75	5,735.32	6,048.11	312.79	....
1,735.38	913.80	391.70	209.63	4,971.90	3,327.50	....	1,644.40
306.67	169.85	74.01	38.96	761.89	399.15	....	362.74
17,224.99	8,230.60	3,516.64	1,888.15	61,422.37	63,811.69	2,389.32	....
1,605.25	837.37	364.86	192.10	4,736.45	3,284.25	....	1,452.20
10,156.12	4,893.78	2,118.60	1,122.67	36,861.51	38,887.17	2,025.66	....
2,768.33	1,829.72	793.66	419.75	10,560.56	10,886.66	326.10	....
3,139.96	1,477.17	591.90	338.88	8,869.70	7,206.86	....	1,662.84
6,224.49	3,655.90	1,539.42	838.69	19,444.82	19,968.23	523.41	....
866.08	1,297.50	518.31	297.66	4,635.19	4,204.66	....	430.53
401.22	105.55	46.00	24.21	795.27	227.28	....	567.99
3,536.86	2,510.91	1,090.36	576.02	11,040.93	10,531.68	....	509.25
663.39	292.92	121.16	67.20	1,350.24	951.90	....	398.34
7,308.62	5,095.82	2,207.94	1,169.02	26,280.87	23,378.98	....	2,901.89
1,795.08	1,469.00	640.07	337.00	6,771.83	7,270.23	498.40	....
151,104.37	95,576.31	40,866.43	21,925.82	535,682.72	538,033.91	21,141.26	18,790.07

Note—For townships included in rural power districts see "Cost of Power" statement preceding.

EASTERN ONTARIO

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1937, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1936		Cash Receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Alexandria	Jan. 1921	739.53			739.53
Apple Hill	April 1921	230.99			230.99
Athens	Jan. 1929	531.91			531.91
Bath	Nov. 1931	95.51			95.51
Belleville	April 1929	14,673.09			14,673.09
Bloomfield	April 1919	318.73			318.73
Bowmanville	Oct. 1931	6,378.82			6,378.82
Brighton	Nov. 1929	1,220.38			1,220.38
Brockville	April 1915	8,296.35			8,296.35
Cardinal	July 1930	900.15			900.15
Carleton Place	May 1919	5,292.77			5,292.77
Chesterville	April 1914	1,091.44			1,091.44
Cobden	Nov. 1935	269.07			269.07
Cobourg	Jan. 1932	4,054.06			4,054.06
Colborne	Jan. 1933	485.68			485.68
Deseronto	Jan. 1931	947.08			947.08
Finch	Feb. 1928	567.61			567.61
Hastings	June 1931	304.85			304.85
Havelock	Feb. 1921	460.76			460.76
Kemptville	Dec. 1921	1,191.56			1,191.56
Lakefield	Aug. 1920	1,319.64			1,319.64
Lanark	Sept. 1921	198.59			198.59
Lancaster	May 1921	520.67		6.90	527.57
Lindsay	Mar. 1928	5,378.44			5,378.44
Madoc	Jan. 1930	200.46			200.46
Marmora	Jan. 1921	143.41			143.41
Martintown	May 1921	72.13			72.13
Maxville	Feb. 1921	508.64			508.64
Napanee	Nov. 1929	4,429.84			4,429.84
Newcastle	Jan. 1937				
Norwood	Feb. 1921	310.72			310.72
Oshawa	Feb. 1929	35,810.43			35,810.43
Ottawa	Jan. 1914	18,092.15			18,092.15
Perth	Feb. 1919	2,743.72			2,743.72
Peterborough	Mar. 1913	23,227.34			23,227.34
Picton	April 1919	3,244.58			3,244.58
Port Hope	Nov. 1929	3,927.18			3,927.18
Prescott	Dec. 1913	2,670.49			2,670.49
Richmond	Aug. 1928	121.91		0.83	122.74
Russell	Feb. 1926	650.60			650.60
Smiths Falls	Sept. 1918	4,342.79			4,342.79
Stirling	Jan. 1930	273.67			273.67
Trenton	Sept. 1931	8,016.89			8,016.89
Tweed	Dec. 1930	618.66			618.66
Warkworth	Oct. 1923	286.52			286.52

SYSTEM *E.O.—CREDIT OR CHARGE*

supplied to it to October 31, 1936, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1937

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1937		Accumulated amount standing as a credit or charge on October 31, 1937	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
12.32		869.83		882.15	
4.10		138.05		142.15	
9.33		525.21		534.54	
1.59		262.50		264.09	
256.52		9,345.99		9,602.51	
5.38			118.37		112.99
107.72		5,032.53		5,140.25	
22.19		616.42		638.61	
140.87		5,022.64		5,163.51	
16.01		541.53		557.54	
108.14		4,652.74		4,760.88	
18.66		955.57		974.23	
4.39		363.07		367.46	
66.64		2,934.37		3,001.01	
9.56		360.78		370.34	
17.24		738.94		756.18	
10.60		706.86		717.46	
6.06		337.92		343.98	
8.79		529.14		537.93	
20.05		1,360.22		1,380.27	
26.24		1,816.03		1,842.27	
3.85		249.95		253.80	
12.84		267.04		279.88	
89.59		6,610.94		6,700.53	
3.30		45.63		48.93	
2.80		462.35		465.15	
1.21		8.22		9.43	
8.81		621.25		630.06	
80.37		3,628.97		3,709.34	
		38.50		38.50	
6.16		236.11		242.27	
710.32		33,354.80		34,065.12	
350.94		2,733.06		3,084.00	
47.81		2,433.40		2,481.21	
401.64		13,823.76		14,225.40	
56.64		1,134.90		1,191.54	
74.46		4,094.93		4,169.39	
54.77		1,419.17		1,473.94	
2.69		378.52		381.21	
15.85		512.76		528.61	
73.34		1,893.76		1,967.10	
4.74		260.83		265.57	
134.03		3,506.98		3,641.01	
10.45		1,161.39		1,171.84	
5.76		333.29		339.05	

EASTERN ONTARIO

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1937, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1936		Cash Receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Wellington	April 1919	647.02			647.02
Westport	Nov. 1931	768.62			768.62
Whitby	Jan. 1926	2,880.52			2,880.52
Williamsburg	April 1915	782.68			782.68
Winchester	Jan. 1914	1,219.79			1,219.79
Total—Municipalities		171,458.44		7.73	171,466.17
RURAL POWER DISTRICTS					
Alexandria R.P.D.	Dec. 1929		5,363.62	65.47	
Arnprior R.P.D.	Dec. 1930		1,262.79	105.00	16.57
Belleville R.P.D.	Aug. 1927	36,505.37		85.00	111.08
Bowmanville R.P.D.	Jan. 1924	3,231.73			186.64
Brighton R.P.D.	Nov. 1929	812.82			31.07
Brockville R.P.D.	Nov. 1921	5,611.11			590.00
Campbellford R.P.D.	Aug. 1924		2,697.04	35.86	45.00
Carleton Place R.P.D.	Feb. 1932		111.83		
Chesterville R.P.D.	Nov. 1921		3,540.26	135.00	125.72
Cobourg R.P.D.	Feb. 1927		775.43	21.27	355.00
Colborne R.P.D.	Aug. 1925		4,212.22	40.00	119.97
Fenelon Falls R.P.D.	July 1931		2,370.74	199.76	157.91
Iroquois R.P.D.	July 1930	9,898.16		50.58	
Kemptville R.P.D.	Dec. 1930	255.93			16.60
Kingston R.P.D.	Jan. 1923		7,632.64		699.38
Lakefield R.P.D.	July 1928		3,459.53	24.33	25.00
Marmora R.P.D.	July 1936		103.67		5.72
Martintown R.P.D.	Jan. 1922	3,433.42		130.00	167.99
Maxville R.P.D.	Dec. 1927		4,012.92	20.00	293.72
Millbrook R.P.D.	July 1930		1,505.30		71.35
Napanee R.P.D.	Nov. 1927		8,611.89	22.27	85.00
Nepean R.P.D.	Feb. 1922	8,782.06		733.77	200.41
Newcastle R.P.D.	Sept. 1927	3,134.33			129.46
Norwood R.P.D.	Jan. 1929		3,146.79	5.00	10.44
Omemee R.P.D.	Jan. 1931		932.12		104.79
Oshawa R.P.D.	April 1918	51,198.82			368.95
Perth R.P.D.	Aug. 1931		6,941.36		71.04
Peterborough R.P.D.	Jan. 1927	20,129.93			99.08
Prescott R.P.D.	June 1922		974.71	298.50	70.00
Renfrew R.P.D.	Nov. 1930		3,312.32	404.35	
Smiths Falls R.P.D.	May 1929		717.74		282.23
Stirling R.P.D.	Nov. 1929		896.77		184.12
Sulphide R.P.D.	Oct. 1937				
Trenton R.P.D.	Jan. 1924	6,874.72			277.38
Warkworth R.P.D.	Nov. 1928	33.79			

SYSTEM *E.O.—CREDIT OR CHARGE*

supplied to it to October 31, 1936, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1937

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1937		Accumulated amount standing as a credit or charge on October 31, 1937	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
10.64		408.22		418.86	
14.05		846.69		860.74	
57.89		2,213.84		2,271.73	
16.55		134.44		150.99	
25.40		793.93		819.33	
3,149.30		120,717.97	118.37	123,861.89	112.99
	212.14		755.29		6,265.58
	46.31	444.97			775.70
1,463.61		1,346.70		39,289.60	
124.07		1,079.95		4,249.11	
31.51		322.98		1,136.24	
205.84		3,499.39		8,726.34	
	109.68		2,112.04		4,927.90
	4.47		141.95		258.25
	136.21	763.01			2,904.18
	45.22		995.93		2,150.31
	166.89		658.26		5,117.34
	97.91	259.41			2,167.39
395.93		3,430.66		13,775.33	
10.24		143.71		393.28	
	321.71	109.91			8,543.82
	139.38		362.42		3,962.00
	4.38	40.14			73.63
142.54			734.84	2,803.13	
	159.72		1,716.98		6,163.34
	60.81	492.85			1,144.61
	347.88		1,382.18		10,404.68
368.12		3,131.90		12,815.44	
123.57		312.79		3,441.23	
	125.67		1,644.40		4,922.30
	39.28		362.74		1,438.93
2,044.54		2,389.32		55,263.73	
	279.45		1,452.20		8,744.05
804.80		2,025.66		22,861.31	
	41.79	326.10			461.90
	123.49		1,662.84		4,694.30
	39.91	523.41			516.47
	39.87		430.53		1,551.29
			567.99		567.99
269.39			509.25	6,357.48	
1.35			398.34		363.20

EASTERN ONTARIO

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1937, and the accumulated amount standing

Rural power district	Date commenced operating	Net credit or charge at October 31, 1936		Cash Receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Wellington R.P.D.	Nov. 1925	....	4,727.11	....	321.12
Williamsburg R.P.D.	Feb. 1923	....	186.28	3.69	40.00
Totals—Rural power districts	....	149,902.19	67,495.08	2,379.85	5,262.74
Totals—Municipalities	....	171,458.44	....	7.73	171,466.17
Totals—Rural power districts	....	149,902.19	67,495.08	2,379.85	5,262.74
Totals	....	321,360.63	67,495.08	2,387.58	176,728.91

EASTERN ONTARIO SYSTEM *E.O.—SINKING FUND*

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with its proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1937

Municipality	Period of years ending Oct. 31, 1937	Amount	Municipality	Period of years ending Oct. 31, 1937	Amount
		$ c.			$ c.
Alexandria	13 years	24,795.74	Marmora	9 years	3,965.41
Apple Hill	13 "	2,580.55	Martintown	13 "	1,611.09
Athens	9 "	4,388.60	Maxville	13 "	7,542.66
Bath	6 "	1,380.53	Napanee	8 "	29,087.33
Belleville	9 "	119,707.98	Newcastle	1 "	332.88
Bloomfield	9 "	4,435.38	Norwood	9 "	4,454.82
Bowmanville	6 "	36,749.38	Oshawa	9 "	365,542.72
Brighton	8 "	7,818.54	Ottawa	22 "	120,418.90
Brockville	17 "	133,152.53	Perth	13 "	53,301.70
Cardinal	8 "	3,471.65	Peterborough	9 "	216,071.30
Carleton Place	13 "	60,999.15	Picton	9 "	37,751.92
Chesterville	18 "	22,517.71	Port Hope	8 "	37,159.25
Cobden	2 "	286.41	Prescott	18 "	37,757.55
Cobourg	6 "	27,277.02	Richmond	10 "	1,952.37
Colborne	5 "	2,141.19	Russell	12 "	4,331.14
Deseronto	7 "	4,671.43	Smiths Falls	14 "	78,105.89
Finch	10 "	3,132.24	Stirling	8 "	6,146.37
Hastings	7 "	2,357.56	Trenton	6 "	48,415.24
Havelock	9 "	9,194.60	Tweed	7 "	6,125.95
Kemptville	13 "	15,747.78	Warkworth	9 "	2,781.78
Lakefield	9 "	9,159.83	Wellington	9 "	7,313.47
Lanark	13 "	4,812.37	Westport	6 "	2,972.84
Lancaster	13 "	4,940.99	Whitby	9 "	36,495.73
Lindsay	9 "	65,827.39	Williamsburg	17 "	4,762.26
Madoc	8 "	5,193.85	Winchester	18 "	15,649.09
			Total—Municipalities		$1,706,790.06

SYSTEM *E.O.—CREDIT OR CHARGE*

supplied to it to October 31, 1936, the cash receipts and payments thereon, adjustment or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1937.

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1937		Accumulated amount standing as a credit or charge on October 31, 1937	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
....	195.88	....	2,901.89	....	8,146.00
....	9.05	498.40	....	266.76	....
5,985.51	2,747.10	21,141.26	18,790.07	171,378.98	86,265.16
3,149.30	....	120,717.97	118.37	123,861.89	112.99
5,985.51	2,747.10	21,141.26	18,790.07	171,378.98	86,265.16
9,134.81	2,747.10	141,859.23	18,908.44	295,240.87	86,378.15

EASTERN ONTARIO SYSTEM *E.O.—SINKING FUND*

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with its proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1937

Rural power district*	Period of years ending Oct. 31, 1937	Amount	Rural power district*	Period of years ending Oct. 31, 1937	Amount
		$ c			$ c.
Alexandria R.P.D........	8 years	2,741.69	**Oshawa** R.P.D...........	9 years	37,511.46
Arnprior R.P.D..........	7 "	707.02	**Perth** R.P.D.............	7 "	1,854.21
Belleville R.P.D.........	9 "	16,249.87	**Peterborough** R.P.D.....	9 "	25,291.63
Bowmanville R.P.D......	9 "	4,887.42	**Prescott** R.P.D..........	16 "	10,162.73
Brighton R.P.D..........	8 "	1,283.65	**Renfrew** R.P.D..........	7 "	1,145.57
Brockville R.P.D.........	16 "	21,247.33	**Smiths Falls** R.P.D......	9 "	10,876.65
Campbellford R.P.D.....	9 "	3,908.93	**Stirling** R.P.D...........	8 "	3,446.08
Carleton Place R.P.D....	6 "	30.67	**Sulphide** R.P.D..........	1 "	41.16
Chesterville R.P.D.......	16 "	13,790.25	**Trenton** R.P.D...........	9 "	6,867.21
Cobourg R.P.D..........	9 "	17,396.68	**Warkworth** R.P.D.......	9 "	262.72
Colborne R.P.D.........	9 "	5,717.62	**Wellington** R.P.D.......	9 "	13,940.41
Fenelon Falls R.P.D.....	7 "	5,525.70	**Williamsburg** R.P.D.....	13 "	2,829.52
Iroquois R.P.D..........	8 "	15,205.12			
Kemptville R.P.D.......	7 "	1,019.08			
Kingston R.P.D.........	9 "	20,935.31			
Lakefield R.P.D.........	9 "	2,729.13			
Marmora R.P.D.........	2 "	50.22			
Martintown R.P.D......	16 "	6,964.42			
Maxville R.P.D..........	10 "	12,572.55			
Millbrook R.P.D.........	8 "	2,648.96			
Napanee R.P.D..........	9 "	14,768.46			
Nepean R.P.D...........	16 "	29,348.37			
Newcastle R.P.D.........	9 "	4,066.72			
Norwood R.P.D..........	9 "	2,000.74			
Omemee R.P.D..........	7 "	337.59			

Totals—Rural power districts....$ 320,362.85

Totals—Municipalities.........$1,706,790.06
Totals—Rural power districts..... 320,362.85

Grand totals..................$2,027,152.91

Note—For townships included in rural power districts see "Cost of Power" statement preceding.

THUNDER BAY

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual Cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Share of operating	
	To Oct. 31 1936	To Oct. 31 1937			Operating, maintenance and administrative expenses	Interest
	$ c.	$ c.	$ c.		$ c.	$ c.
Fort William	$21.00 plus transformation charges		2,569,820.25	10,538.0	37,978.23	117,959.93
Port Arthur	$21.00 plus transformation charges		9,245,310.03	38,515.6	133,952.30	424,353.85
Township of Nipigon	30.00	30.00	24,880.61	112.3	1,031.56	1,141.64
RURAL POWER DISTRICTS						
Fort William R.P.D.—Island Ward, McGregor, McIntyre, McTavish, Neebing, Oliver, Paipoonge and Shuniah twps.			37,702.40	143.6	801.15	1,731.07
Port Arthur R.P.D.—Island Ward, McGregor, McIntyre, McTavish and Shuniah twps.			17,081.56	59.7	474.95	784.51
Totals—Municipalities			11,840,010.89	49,165.9	172,962.09	543,455.42
Totals—Rural power districts			54,783.96	203.3	1,276.10	2,515.58
Totals—Companies and local distribution systems			7,507,186.93	29,569.9	125,977.15	333,628.44
			19,401,981.78			
Non-operating capital			105,406.49			
Grand totals			19,507,388.27	78,939.1	300,215.34	879,599.44

THUNDER BAY SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged (by annual adjustment) of the actual costs

Rural power district	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding	Distribution
	Total capital cost	Government grant	Commission's investment		Cost of operation maintenance and admintration
	$ c.	$ c.	$ c.	$ c.	$ c.
Fort William R.P.D.	81,526.31	40,763.15	40,763.16	3,569.12	2,132.19
Port Arthur R.P.D.	54,326.27	27,163.14	27,163.13	1,733.48	1,514.87
Total—Capital	135,852.58	67,926.29	67,926.29		
Non-operating capital	5,774.88	2,887.44	2,887.44		
Grand totals	141,627.46	70,813.73	70,813.73	5,302.60	3,647.06

SYSTEM *T.B.—COST OF POWER*

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of Power supplied to it in the year ending October 31, 1937

costs and fixed charges				Revenue received in excess of cost of power sold to private companies (Credit)	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality Credited (Charged)
Provision for depreciation and obsolescence	Provision for contingencies	Provision for stabilization of rates	Provision for sinking fund				
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
22,668.89	11,971.25	26,345.00	26,959.48	17,865.28	226,017.50	224,714.90	(1,302.60)
80,645.49	43,018.14	96,289.00	96,985.13	65,296.27	809,947.64	816,592.70	6,645.06
207.15	116.10	280.75	260.92	190.38	2,847.74	3,368.11	520.37
349.17	176.55	359.00	395.63	243.45	3,569.12	3,569.12	....
166.26	80.42	149.25	179.30	101.21	1,733.48	1,733.48	....
103,521.53	55,105.49	122,914.75	124,205.53	(83,351.93)	1,038,812.88	1,044,675.71	7,165.43 (1,302.60)
515.43	256.97	508.25	574.93	(344.66)	5,302.60	5,302.60	....
53,866.61	30,344.02	....	128,415.54	83,696.59	755,928.35	755,928.35	....
157,903.57	85,706.48	123,423.00	253,196.00	....	1,800,043.83	1,805,906.66	7,165.43 (1,302.60)

RURAL POWER DISTRICTS *T.B.—RURAL OPERATING*

District, the revenues collected from (or charged to) customers within each District, the Municipalities comprising certain other Districts upon ascertainment in the year ending October 31, 1937

costs and fixed charges			Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Interest	Provision for depreciation and obsolescence	Sinking fund			Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,786.68	783.74	412.64	8,684.37	10,150.90	1,466.53	....
1,216.46	533.61	280.95	5,279.37	4,530.91	....	748.46
3,003.14	1,317.35	693.59	13,963.74	14,681.81	1,466.53	748.46

THUNDER BAY

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1937, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1936		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Fort William	Oct. 1926	6,283.73	....	....	6,283.73
Port Arthur	Dec. 1910	24,489.24	....	....	24,489.24
Township of Nipigon	Jan. 1925	279.93	....	....	279.93
RURAL POWER DISTRICTS					
Fort William R.P.D.	Oct. 1932	1,120.56	....	....	318.53
Port Arthur R.P.D.	Jan. 1932	....	5,571.73	....	205.98
Totals	....	32,173.46	5,571.73	....	31,577.41

THUNDER BAY SYSTEM *T.B.—SINKING FUND*

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1937

Municipality	Period of years ending October 31, 1937	Amount
		$ c.
Fort William	11 years	448,922.46
Port Arthur	11 "	1,518,550.35
Township of Nipigon	11 "	3,190.76
Totals Municipalities	....	1,970,663.57
RURAL POWER DISTRICTS		
Fort William R.P.D.	6 years	4,228.72
Port Arthur R.P.D.	6 "	2,461.23
Totals—Rural power districts	....	6,689.95
Totals—Municipalities	....	1,970,663.57
Totals—Rural power districts	....	6,689.95
Grand total	....	1,977,353.52

SYSTEM *T.B.—CREDIT OR CHARGE*

supplied to it to October 31, 1936, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1937

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1937		Accumulated amount standing as a credit or charge on October 31, 1937	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
124.64			1,302.60		1,177.96
402.56		6,645.06		7,047.62	
5.22		520.37		525.59	
35.46		1,466.53		2,304.02	
	226.67		748.46		6,752.84
567.88	226.67	8,631.96	2,051.06	9,877.23	7,930.80

MANITOULIN ISLAND

Statement showing the costs of distribution of power within the Rural Power District; amount remaining to be credited to this District upon ascertainment (by

Rural power district	Total capital cost of each district, Provincial Government grant received and applied there against, and the balance representing the investment by the Commission			Distribution
	Total capital cost	Government grant	Commission's investment	Cost of power purchased
	$ c.	$ c.	$ c.	$ c.
Manitoulin R.P.D.—Billings, Carnarvon and Gordon and Allan twps., Town of Gore Bay and Indian Reserve	78,517.07	36,327.88	42,189.19	3,750.00
Non-operating capital	1,138.95	569.47	569.48	....
Grand totals	79,656.02	36,897.35	42,758.67	3,750.00

MANITOULIN ISLAND

Statement showing the net charge to Manitoulin Rural Power District in respect net amount credited to this Rural Power District in respect of power amount standing as a charge

Rural power district	Date commenced operating	Net charge at October 31, 1936	Adjustments made during the year
		Charge	Credited
		$ c.	$ c.
Manitoulin R.P.D.	Dec. 1932	2,932.90	18.58

MANITOULIN ISLAND RURAL POWER DISTRICT *SINKING FUND*

Statement showing Sinking Fund paid by Manitoulin Rural Power District in the periods mentioned hereunder, as part of the cost of power delivered thereto and interest allowed thereon to October 31, 1937.

Rural power district	Period of years ending October 31, 1937	Amount
		$ c.
Manitoulin R.P.D.	5 years	1,914.38

RURAL POWER DISTRICT *MANITOULIN—RURAL OPERATING*

the revenue collected from (or charged to) customers within the District and the annual adjustment) of the actual costs in the year ending October 31, 1937

costs and fixed charges					Revenue from power and light customers in each district	Amounts remaining to be credited to the district
Cost of operation maintenance and administration	Interest	Depreciation and obsolescence	Sinking fund	Total cost		Credited
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,364.82	1,605.15	657.90	377.24	7,755.11	9,207.62	1,452.51
....	....	....	....	....	....	....
1,364.82	1,605.15	657.90	377.24	7,755.11	9,207.62	1,452.51

RURAL POWER DISTRICT *MANITOULIN—CREDIT OR CHARGE*

of power supplied to it to October 31, 1936, interest added during the year; also the supplied in the year ending October 31, 1937, and the accumulated at October 31, 1937.

Interest at 4% per annum added during the year Charged	Net amount credited in respect of power supplied in the year ending October 31, 1937 Credited	Accumulated amount standing as a charge on October 31, 1937 Charge
$ c. 118.32	$ c. 1,452.51	$ c. 1,580.13

NIPISSING RURAL

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged (by annual adjustment) of the actual costs

Rural power district	Total capital cost of each district, Provincial Government grant received and applied there against, and the balance representing the investment by the Commission			Cost of power purchased from Nipissing District of Northern Ontario Properties
	Total capital cost	Government grant	Commission's investment	
	$ c.	$ c.	$ c.	$ c.
North Bay R.P.D.—West Ferris and Widdifield twps.	62,460.17	30,858.21	31,601.96	5,822.62
Powassan R.P.D.—Himsworth South twp.	7,174.32	3,587.16	3,587.16	292.21
Total capital	69,634.49	34,445.37	35,189.12	6,114.83
Non-operating capital	....	....	....	....
Grand totals	69,634.49	34,445.37	35,189.12	6,114.83

NIPISSING RURAL

Statement showing the net Credit to each Rural Power District in respect of power amount credited or charged to each Rural Power District in respect of accumulated amount standing as a credit to

Rural power district	Date commenced operating	Net credit at October 31, 1936
		Credit
		$ c.
North Bay R.P.D.	June 1927	11,787.98
Powassan R.P.D.	Nov. 1931	499.94
Totals	....	12,287.92

POWER DISTRICTS *NIPISSING RURAL—OPERATING*

District, the revenues collected from (or charged to) customers within each District, the Municipalities comprising certain other Districts upon ascertainment in the year ending October 31, 1937

Cost of operation maintenance and administration	Interest	Provision for depreciation and obsolescence	Provision for sinking fund	Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
						Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
2,407.04	1,681.52	567.63	298.87	10,777.68	13,088.48	2,310.80	....
296.46	212.52	71.77	37.77	910.73	734.71	....	176.02
2,703.50	1,894.04	639.40	336.64	11,688.41	13,823.19	2,310.80	176.02
....	....	....	....	....	....	....	....
2,703.50	1,894.04	639.40	336.64	11,688.41	13,823.19	2,310.80	176.02

POWER DISTRICTS *NIPISSING RURAL—CREDIT OR CHARGE*

supplied to it to October 31, 1936, the interest added during the year; also the net power supplied in the year ending October 31, 1937, and the each Rural Power District at October 31, 1937.

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1937		Accumulated amount standing as a credit or charge on October 31, 1937
Credited	Charged	Credited	Charged	Credit
$ c.	$ c.	$ c.	$ c.	$ c.
471.52	....	2,310.80	....	14,570.30
20.00	....	....	176.02	343.92
491.52	....	2,310.80	176.02	14,914.22

NIPISSING RURAL POWER DISTRICTS *SINKING FUND*

Statement showing Sinking Fund paid by each Rural Power District in the periods mentioned hereunder, as part of the Cost of Power delivered thereto and interest allowed thereon to October 31, 1937.

Rural power districts	Period of years ending October 31, 1937	Amount
		$ c.
North Bay R.P.D.	8 years	1,783.98
Powassan R.P.D.	6 "	190.07
Total		1,974.05

NORTHERN ONTARIO PROPERTIES

(Operated by The Hydro-Electric Power Commission of Ontario)

FINANCIAL ACCOUNTS

For the Year ended October 31, 1937

Relating to Power Properties which are held and operated by the Commission in trust for the Province of Ontario, and which are situated in the following Northern Districts:

Nipissing	Abitibi	Patricia
Sudbury	Espanola	St. Joseph

STATEMENTS

Balance Sheet as at October 31, 1937

Operating Account for the Year ended October 31, 1937

Schedules supporting the Balance Sheet as at October 31, 1937
- Fixed Assets—By Districts
- Depreciation and Obsolescence Reserves
- Contingency Reserves
- Sinking Fund Reserves

NORTHERN ONTARIO

Held and Operated by The Hydro-Electric Power

Balance Sheet as at

ASSETS

INVESTMENTS:			
Fixed Assets:			
Nipissing district		$ 1,694,886.00	
Sudbury district		3,151,926.45	
Abitibi district		27,100,938.68	
Espanola district		12,913.21	
Patricia district		1,067,946.63	
St. Joseph district		709,462.80	
			$33,738,073.77
CURRENT AND ACCRUED ASSETS:			
Special deposits for matured interest and debentures unpaid		$ 187,123.78	
Sundry accounts receivable		13,324.42	
Power accounts receivable		276,227.25	
Province of Ontario—Deficit contributions		513,013.79	
Consumers' deposits:			
Securities—Bonds at par value	$ 456,700.00		
Securities—Stocks at market value	144,200.00		
		600,900.00	
			1,590,589.24
DEFERRED DEBITS:			
Maintenance materials and supplies		$ 56,082.12	
Construction tools and equipment		52,599.99	
Prepayments		53,192.13	
Unamortized debt discount		505,311.33	
Miscellaneous deferred debits		750.96	
			667,936.53
			$35,996,599.54

PROPERTIES

Commission of Ontario in trust for the Province of Ontario

October 31, 1937.

LIABILITIES AND RESERVES

Long-Term Liabilities:			
Funded debt in the hands of the public		$24,000,000.00	
Advances from the Province of Ontario for capital expenditures.		6,531,407.42	
Purchase agreement—Falconbridge transformer station		28,378.95	
			$30,559,786.37
Current and Accrued Liabilities:			
Accounts payable		$ 111,084.77	
Matured debenture interest unpaid		16,723.78	
Debentures called and unpaid		170,400.00	
Debenture interest accrued		67,083.32	
Interest accrued on Provincial advances		122,451.47	
Miscellaneous accrued liabilities		1,875.10	
Hydro-Electric Power Commission of Ontario		967,419.55	
Liability for consumers' deposits		631,842.70	
			2,088,880.69
Deferred Credits:			
Miscellaneous deferred credits			2,843.20
Reserves:			
Depreciation and obsolescence reserves:			
Additions to properties through depreciation and obsolescence reserves		$ 1,425,573.65	
Contingency reserves:			
Additions to properties through contingency reserves		280,591.65	
Sinking fund reserves:			
Provincial advances repaid through sinking funds		1,638,723.98	
Miscellaneous reserves		200.00	
			3,345,089.28
Deficit Account:			
Balance at November 1, 1936	$888,802.80		
Net income for the year ended October 31, 1937	834,735.62		
	$ 54,067.18		
Sinking fund appropriations for the year ended October 31, 1937	912,603.22		
Balance at October 31, 1937		$ 966,670.40	
Less: Advances from the Province of Ontario for Operating deficits and sinking fund appropriations		966,670.40	
			—
			$35,996,599.54

Auditors' Certificate

We have examined the Accounts of the Northern Ontario Properties for the year ended the 31st October, 1937, and report that, in conjunction with our Annual Report to the Lieutenant-Governor in Council, in our opinion the above Balance Sheet is properly drawn up so as to exhibit a true and correct view of the state of the affairs of Northern Ontario Properties at the 31st October, 1937, according to the best of our information and the explanations given to us and as shown by the books and records of the Properties. We have obtained all the information and explanations we have required.

Oscar Hudson and Co.,
Chartered Accountants,
Auditors

Dated at Toronto, Ontario,
9th April, 1938.

NORTHERN ONTARIO

Held and operated by The Hydro-Electric
in trust for the

Operating Account for

	Nipissing district	Sudbury district
	$ c.	$ c.
OPERATING REVENUE:		
Power sold to private companies and customers	253,360.00	426,000.12
Power sold to rural power districts	6,114.83	....
Totals	259,474.83	426,000.12
OPERATING EXPENSES:		
Power purchased	350.75	28.75
Operation, maintenance and administration	90,565.69	96,467.66
Totals	90,916.44	96,496.41
INTEREST AND FIXED CHARGES:		
Interest	76,924.71	134,216.47
Provision for depreciation	18,286.26	30,731.41
Provision for contingencies	8,859.61	20,487.60
Provision for sinking fund	29,920.01	52,398.38
Totals	133,990.59	237,833.86
TOTAL OPERATING EXPENSES, INTEREST AND FIXED CHARGES	224,907.03	334,330.27
SURPLUS (OR DEFICIT)	34,567.80	91,669.85

PROPERTIES

Power Commission of Ontario
Province of Ontario

the year ended October 31, 1937

Abitibi district	Espanola district	Patricia district	St. Joseph district	Total
$ c.	$ c.	$ c.	$ c.	$ c.
2,013,396.99	12,721.80	124,958.35	131,244.47	2,961,681.73
....	....	....	....	6,114.83
2,013,396.99	12,721.80	124,958.35	131,244.47	2,967,796.56
....	7,482.92	....	....	7,862.42
334,740.46	975.23	62,596.03	33,017.98	618,363.05
334,740.46	8,458.15	62,596.03	33,017.98	626,225.47
929,810.06	203.15	28,050.00	18,691.61	1,187,896.00
233,606.18	....	....	....	282,623.85
35,473.56	....	....	....	64,820.77
686,055.02	1,074.52	55,711.52	58,938.62	884,098.07
1,884,944.82	1,277.67	83,761.52	77,630.23	2,419,438.69
2,219,685.28	9,735.82	146,357.55	110,648.21	3,045,664.16
(206,288.29)	2,985.98	(21,399.20)	20,596.26	(77,867.60)

NORTHERN ONTARIO PROPERTIES

Held and Operated by The Hydro-Electric Power Commission of Ontario in Trust for the Province of Ontario
Fixed Assets at October 31, 1937

District	Net capital expenditures in the year	Fixed Assets			Total
			In service		
		Under construction	Non-depreciable including lands and water rights	Depreciable	
	$ c.	$ c.	$ c.	$ c.	$ c.
NIPISSING:					
Power Plants:					
South river:					
Nipissing	35.55		11,099.60	239,078.84	250,178.44
Bingham Chute	*41.99*	68.01	12,093.60	227,730.04	239,891.65
Elliott Chute	*30.67*	19.33	119,307.09	335,124.99	454,451.41
Storage dams				74,522.70	74,522.70
Miscellaneous				6,390.46	6,390.46
Intangible			69,478.34		69,478.34
	37.11	87.34	211,978.63	882,847.03	1,094,913.00
Transformer Stations	3,177.28			20,109.50	20,109.50
Transmission Lines	10,986.05	10,986.05		172,963.28	183,949.33
Local Systems	6,618.08		22,649.50	373,264.67	395,914.17
	20,744.30	11,073.39	234,628.13	1,449,184.48	1,694,886.00
SUDBURY:					
Power Plants:					
Wahnapitae river:					
Coniston	9,054.42	323.94	13,200.00	522,738.79	536,262.73
McVittie	*10,711.14*		13,200.00	391,059.06	404,259.06
Stinson	9,301.25		33,000.00	639,843.75	672,843.75
Storage dam				194,870.00	194,870.00
Intangible			830,614.53		830,614.53
Sturgeon river:					
Crystal Falls	10,173.19	7,071.29		3,101.90	10,173.19
	17,817.72	7,395.23	890,014.53	1,751,613.50	2,649,023.26
Transformer Stations	3,222.85	21.48		86,171.98	86,193.46
Transmission Lines	216,435.63			413,113.89	413,113.89
Local Systems	3,595.84	3,595.84			3,595.84
	241,072.04	11,012.55	890,014.53	2,250,899.37	3,151,926.45
ABITIBI:					
Power Plants:					
Abitibi river:					
Abitibi Canyon	11,129.42	7.34	5,472,496.27	14,189,422.15	19,661,925.76
Frederick House river:					
Frederick House dam	523,351.60	523,351.60			523,351.60
	534,481.02	523,358.94	5,472,496.27	14,189,422.15	20,185,277.36
Transformer Stations	187,063.61	704.83		1,130,491.47	1,131,196.30
Transmission Lines	108,987.70	8,909.47	618,580.78	5,112,738.11	5,740,228.36
Local Systems	8,416.47	6.58		44,230.08	44,236.66
	838,948.80	532,979.82	6,091,077.05	20,476,881.81	27,100,938.68

NORTHERN ONTARIO PROPERTIES

Held and Operated by The Hydro-Electric Power Commission of Ontario in Trust for the Province of Ontario
Fixed Assets at October 31, 1937

District	Net capital expenditures in the year	Fixed Assets			Total
		Under construction	In service		
			Non-depreciable including lands and water rights	Depreciable	
	$ c.	$ c.	$ c.	$ c.	$ c.
Espanola:					
Transformer Stations........	12.40	12.40	....	2,382.77	2,395.17
Transmission Lines..........	....	....	....	10,518.04	10,518.04
	12.40	12.40	....	12,900.81	12,913.21
Patricia:					
Power Plants:					
English river:					
Ear Falls..............	458,466.53	53,349.42	....	1,007,824.14	1,061,173.56
Transformer Stations........	1,453.19	995.70	....	5,098.62	6,094.32
Transmission Lines..........	678.75	678.75	....	....	678.75
	460,598.47	55,023.87	....	1,012,922.76	1,067,946.63
St. Joseph:					
Power Plants:					
Albany river:					
Rat Rapids............	19,942.97	....	....	667,379.56	667,379.56
Donation in aid of construction............	....	....	....	*80,000.00*	*80,000.00*
	19,942.97	....	....	587,379.56	587,379.56
Transformer Stations........	1,374.66	....	....	5,029.02	5,029.02
Transmission Lines..........	1,691.01	....	....	117,054.22	117,054.22
	23,008.64	....	....	709,462.80	709,462.80

SUMMARY

District	Net capital expenditures in the year	Fixed Assets			Total
		Under construction	In service		
			Non-depreciable including lands and water rights	Depreciable	
	$ c.	$ c.	$ c.	$ c.	$ c.
Nipissing district....	20,744.30	11,073.39	234,628.13	1,449,184.48	1,694,886.00
Sudbury district.....	241,072.04	11,012.55	890,014.53	2,250,899.37	3,151,926.45
Abitibi district......	838,948.80	532,979.82	6,091,077.05	20,476,881.81	27,100,938.68
Espanola district.....	12.40	12.40	....	12,900.81	12,913.21
Patricia district......	460,598.47	55,023.87	....	1,012,922.76	1,067,946.63
St. Joseph district....	23,008.64	....	....	709,462.80	709,462.80
	1,584,384.65	610,102.03	7,215,719.71	25,912,252.03	33,738,073.77

NORTHERN ONTARIO

Held and Operated by The Hydro-Electric Power

Depreciation and Obsolescence

	Nipissing district	Sudbury district
	$ c.	$ c.
Balances at November 1, 1936	304,137.21	177,434.55
Depreciation and obsolescence provision for the year	18,286.26	30,731.41
Interest for the year	12,165.49	7,097.38
Total additions	30,451.75	37,828.79
Total	334,588.96	215,263.34
Expenditures during the year	1,840.61	2,192.41
Balances as at October 31, 1937	332,748.35	213,070.93

Contingency Reserves

	Nipissing district	Sudbury district
	$ c.	$ c.
Balances at November 1, 1936	175,361.27	116,220.90
Contingency provision for the year	8,859.61	20,487.60
Interest for the year	7,014.45	4,648.84
Total additions	15,874.06	25,136.44
Total	191,235.33	141,357.34
Expenditures during the year	89.39	87,424.87
Balances as at October 31, 1937	191,145.94	53,932.47

Sinking Fund Reserves

	Nipissing district	Sudbury district
	$ c.	$ c.
Balances at November 1, 1936	35,966.60	58,694.30
Sinking Fund provision for the year	29,920.01	52,398.38
Interest for the year	1,438.66	2,347.77
Total additions	31,358.67	54,746.15
Balances as at October 31, 1937	67,325.27	113,440.45

PROPERTIES

Commission of Ontario in Trust for the Province of Ontario

Reserves—October 31, 1937

Abitibi district	Espanola district	Patricia district	St. Joseph district	Total
$ c.	$ c.	$ c.	$ c.	$ c.
581,269.13	691.35	40,058.89	....	1,103,591.13
233,606.18	....	....	....	282,623.85
23,250.77	27.65	1,602.36	....	44,143.65
256,856.95	27.65	1,602.36	....	326,767.50
838,126.08	719.00	41,661.25	....	1,430,358.63
316.03	....	435.93	....	4,784.98
837,810.05	719.00	41,225.32	....	1,425,573.65

—October 31, 1937

Abitibi district	Espanola district	Patricia district	St. Joseph district	Total
$ c.	$ c.	$ c.	$ c.	$ c.
....	388.80	9,231.13	....	301,202.10
35,473.56	....	....	....	64,820.77
....	15.55	369.24	....	12,048.08
35,473.56	15.55	369.24	....	76,868.85
35,473.56	404.35	9,600.37	....	378,070.95
4,159.58	....	5,805.46	....	97,479.30
31,313.98	404.35	3,794.91	....	280,591.65

—October 31, 1937

Abitibi district	Espanola district	Patricia district	St. Joseph district	Total
$ c.	$ c.	$ c.	$ c.	$ c.
523,115.25	409.40	51,923.36	56,011.85	726,120.76
686,055.02	1,074.52	55,711.52	58,938.62	884,098.07
20,924.61	16.38	1,817.32	1,960.41	28,505.15
706,979.63	1,090.90	57,528.84	60,899.03	912,603.22
1,230,094.88	1,500.30	109,452.20	116,910.88	1,638,723.98

THE HAMILTON STREET RAILWAY COMPANY

(A Subsidiary of The Hydro-Electric Power Commission of Ontario—
Niagara System)

FINANCIAL ACCOUNTS

For the Year ended October 31, 1937

Balance Sheet as at October 31, 1937

Operating and Income Accounts for the Year ended October 31, 1937

THE HAMILTON STREET

(A Subsidiary of The Hydro-Electric Power

Balance Sheet as at

ASSETS

INVESTMENTS:		
Properties, road and equipment, buses, franchises, etc......	$4,699,635.34	
Less—Surplus created by advances from the Dominion Power and Transmission Company, Limited, prior to acquisition by The Hydro-Electric Power Commission of Ontario at December 31, 1929...	488,846.85	
		$4,210,788.49
CURRENT AND ACCRUED ASSETS:		
Cash in local bank	$9,161.49	
Cash in the general bank account of the Commission	67,442.57	
Accounts receivable	4,392.91	
		80,996.97
DEFERRED DEBITS:		
Materials and supplies	$49,050.98	
Conductors' and employees' advances	12,370.00	
Prepayments	5,471.53	
		66,892.51
		$4,358,677.97

RAILWAY COMPANY

Commission of Ontario—Niagara System)

October 31, 1937

LIABILITIES, RESERVES AND CAPITAL

CAPITAL STOCK:		
Authorized: 80,000 shares of a par value of $50.00 each....	$4,000,000.00	
Issued: 64,100 shares of a par value of $50.00 each........		$3,205,000.00
CURRENT AND ACCRUED LIABILITIES:		
Accounts payable..		9,554.53
RESERVES:		
Reserve for depreciation—road and equipment............	$1,091,882.97	
Insurance reserves....................................	41,660.93	
Operating reserves....................................	29,204.28	
		1,162,748.18
DEFICIT:		
Balance October 31, 1937..		*18,624.74*
		$4,358,677.97

Auditors' Certificate

We have examined the Accounts of The Hamilton Street Railway Company for the year ended the 31st October, 1937, and report that, subject to the comments contained in our Annual Report on the Accounts of The Hydro-Electric Power Commission of Ontario, in our opinion the above Balance Sheet is properly drawn up so as to exhibit a true and correct view of the state of the Company's affairs at the 31st October, 1937, according to the best of our information and the explanations given to us and as shown by the books of the Company. We have obtained all the information and explanations we have required.

OSCAR HUDSON AND CO.,
Chartered Accountants,
Auditors.

Dated at Toronto, Ontario,
9th April, 1938.

THE HAMILTON STREET RAILWAY COMPANY

(A Subsidiary of The Hydro-Electric Power Commission of Ontario—Niagara System)

Operating and Income Accounts for the year ended October 31, 1937

Operating Account

	Tramways	Buses	Total
	$ c.	$ c.	$ c.
OPERATING REVENUES:			
Revenue from transportation	880,086.18	224,755.63	1,104,841.81
Revenue from other operations	5,140.31	709.09	5,849.40
Operating revenues	885,226.49	225,464.72	1,110,691.21
OPERATING EXPENSES:			
Maintenance of way and structures	54,438.76	....	54,438.76
Maintenance of equipment	70,921.88	33,955.13	104,877.01
Power purchased	145,388.29	....	145,388.29
Transportation expenses	257,769.51	114,841.78	372,611.29
Traffic expenses	246.19	....	246.19
General and miscellaneous expenses	75,374.05	11,120.37	86,494.42
Depreciation provision	150,000.00	9,476.04	159,476.04
Operating expenses	754,138.68	169,393.32	923,532.00
NET OPERATING REVENUE	131,087.81	56,071.40	187,159.21
Taxes	50,911.57	9,097.14	60,008.71
NET OPERATING INCOME	80,176.24	46,974.26	127,150.50

Income Account

NET OPERATING INCOME (as above)		$127,150.50
Interest on advances from Niagara system		849.57
NET INCOME		126,300.93
DISPOSITION OF NET INCOME:		
Dividend appropriation of income	$122,969.46	
Appropriation for ticket reserve	3,331.47	
		126,300.93
BALANCE TRANSFERRED TO DEFICIT ACCOUNT		NIL

GUELPH RADIAL RAILWAY

(Operated by The Hydro-Electric Power Commission of Ontario)

FINANCIAL ACCOUNTS

For the Year ended October 31, 1937

Balance Sheet as at October 31, 1937

Operating and Income Accounts for the Year ended October 31, 1937

GUELPH RADIAL

(Operated by The Hydro-Electric

Balance Sheet as at

ASSETS

Investments:			
Road and equipment			$458.443.53
Current and Accrued Assets:			
Cash		$50,455.15	
Miscellaneous accounts receivable		739.10	
Interest receivable		1,237.50	
		$52,431.75	
City of Guelph:			
Operating deficit for the year ended October 31, 1937	$39,584.06		
Less:—Amount due to the City of Guelph as per purchase agreement	11,700.00		
	$27,884.06		
Payment on deficit for the year ended October 31, 1937	39,668.82		
		11,784.76	
			40,646.99
Deferred Debits:			
Materials and supplies		$2,757.53	
Employees' working funds		850.00	
Prepayments		1,059.36	
			4,666.89
Special Funds:			
Reserve funds investments			65,244.90
			$569,002.31

RAILWAY

Power Commission of Ontario)

October 31, 1937

LIABILITIES, RESERVES AND EQUITY

LONG-TERM DEBT:		
5% Hydro-Radial Debentures due November 1, 1970 (Issued for extensions and betterments, secured by $300,000.00 5% City of Guelph debentures due May 1, 1971)		$300,000.00
CURRENT AND ACCRUED LIABILITIES:		
Accounts and payrolls payable	$21,364.98	
Matured interest unpaid	7,500.00	
		28,864.98
DEFERRED CREDITS:		
Premium on funded debt		20,262.22
RESERVES:		
Reserve for depreciation—road and equipment	$44,547.68	
Operating reserves	2,375.30	
		46,922.98
EQUITY OF THE CITY OF GUELPH:		
Purchase price of the Railway as per purchase agreement of December 8, 1920	$150,000.00	
Less:—Thirty-three instalments thereon	119,235.60	
	$ 30,764.40	
Reserve:—Created by payment of instalments on the purchase price out of the revenue of the road and assessments against the City of Guelph	119,235.60	
Sinking fund reserve	22,952.13	
		172,952.13
		$569,002.31

Auditors' Certificate

We have examined the Accounts of the Guelph Radial Railway for the year ended the 31st October, 1937, and report that, subject to the final adjustment for abandoned Street Railway Equipment and to the adequacy of the Reserve for Depreciation, in our opinion the above Balance Sheet is properly drawn up so as to exhibit a true and correct view of the state of the Railway's affairs at the 31st October, 1937, according to the best of our information and the explanations given to us and as shown by the books of the Railway. We have obtained all the information and explanations we have required.

OSCAR HUDSON AND CO.,
Chartered Accountants,
Auditors.

Dated at Toronto, Ontario,
9th April, 1938.

GUELPH RADIAL RAILWAY

(Operated by The Hydro-Electric Power Commission of Ontario)

Operating and Income Accounts for the year ended October 31, 1937

Operating Account

	Tramways	Buses	Total
	$ c.	$ c.	$ c.
OPERATING REVENUES:			
Revenue from transportation	42,620.88	19,751.34	62,372.22
Revenue from other operations	474.47	58.62	533.09
Operating revenues	43,095.35	19,809.96	62,905.31
OPERATING EXPENSES:			
Maintenance of way and structures	4,204.55	....	4,204.55
Maintenance of equipment	7,332.47	2,962.81	10,295.28
Power purchased	10,553.31	....	10,553.31
Transportation expenses	15,262.80	12,768.59	28,031.39
Traffic expenses	98.69	....	98.69
General and miscellaneous expenses	11,746.93	2,559.66	14,306.59
Depreciation provision	1,199.88	6,245.42	7,445.30
Operating expenses	50,398.63	24,536.48	74,935.11
NET OPERATING DEFICIT	7,303.28	4,726.52	12,029.80
Taxes	246.27	....	246.27
NET OPERATING LOSS	7,549.55	4,726.52	12,276.07

Income Account

NET OPERATING LOSS (as above)			$12,276.07
NET INTEREST CHARGES:			
Interest on long-term debt		$15,000.00	
Amortization of Premium on debt		258.46	
		14,741.54	
Income from special funds	$2,904.21		
Miscellaneous interest income	149.61		
		3,053.82	
			11,687.72
NET LOSS			23,963.79
SINKING FUND APPROPRIATION FOR THE YEAR:			
Principal		3,159.00	
Interest		761.27	
			3,920.27
DEFICIENCY AFTER SINKING FUND APPROPRIATION			27,884.06
MISCELLANEOUS DEBITS:			
Reserve Appropriation—Instalment on purchase agreement			11,700.00
TOTAL DEFICIT CHARGED TO THE CITY OF GUELPH			$39,584.06

SECTION X

MUNICIPAL ACCOUNTS

and

Statistical Data Relating to Hydro-Electric Distribution Systems Operated by Individual Municipalities Served by The Hydro-Electric Power Commission of Ontario

The Municipal Accounts section of this report presents in summary, and individually, the results of the operation of the local electrical utilities in municipalities owning their own distributing systems and operating with energy supplied by or through The Hydro-Electric Power Commission.

Financial statements prepared from the books of these "Hydro" utilities are submitted herein to show how each has operated during the past year, and its financial status at the present time. Other tables give useful statistical information respecting average costs for the various classes of service and the rates in force.

The books of account of the electrical utilities in all municipalities which have contracted with The Hydro-Electric Power Commission of Ontario for a supply of power are kept in accordance with an accounting system designed by the Commission. During the year 1937, this standard method of accounting was installed in Beamsville, Forest Hill, Swansea and Newcastle.

Periodical inspections are made of the books of all "Hydro" electrical utilities and local officials are assisted in the improvement of their office routine with a view to standardizing, as far as possible, the methods employed. In the majority of the smaller municipalities much of the book-keeping for the electrical utilities is performed by representatives of the municipal accounting department of the Commission as a measure of economy. This arrangement insures the correct application of the standard accounting system, with resultant uniformity in classification of revenues and expenditures; secures true reflections of the actual operating results for the year, and greatly enhances the comparative values of the reports.

The first financial statement in this section presents consolidated balance sheets for each year since 1913, and thus shows the march of progress. It combines the balance sheets of the local municipal utilities of all the systems. It is worth noting that the total plant value has increased from $10,081,469.16 in 1913 to $95,732,133.33 in 1937, and the total assets from $11,907,826.86

to $159,082,200.01. The liabilities have not increased in the same proportion as the assets, rising from $10,468,351.79 to a maximum of $52,685,316.86 in 1932 and receding to $38,611,187.51 in 1937. The reasons for this are the regular fulfilment of debt retirement schedules under serial debenture provisions or by maturity of sinking funds, and also the fact that much of the cost of the increasing plant value has been financed out of reserves and surplus without increasing the capital liabilities of the respective utilities. By this procedure the funds of the systems are used to best advantage. Examination of the results will also show that there is a steady decline in the percentage of net liabilities to total assets; being from 88.0 per cent in 1913 to 25.2 per cent in 1937. The equities in The Hydro-Electric Power Commission's systems automatically acquired through the inclusion of sinking funds as part of the cost of power are not taken into account in arriving at these percentages.

The second financial statement presents consolidated operating reports for each year since "Hydro" service was inaugurated and combines the results from the local municipal utilities of all the systems. After providing for every cost of operation and fixed charges, including the standard provision for depreciation, the combined operating reports show a net surplus of $1,460,057.38 for 1937. (See also diagrams in Foreword to Report.)

The five statements, "A" to "E", following the two consolidated reports show the financial status of each municipal utility and the results of operations, giving classified information respecting revenue, operating costs, number of consumers and consumption, cost of power to municipalities, power and lighting rates charged to consumers, etc. In statements "A" and "B", the municipalities are arranged alphabetically under each system; in statement "D" the municipalities are arranged in three groups—cities, towns and small municipalities; in statements "C" and "E" all municipalities are arranged alphabetically.

Statement "A" presents the balance sheet of each electrical utility. The plant values are shown under the general subdivisions specified in the standard accounting system and the other items on the positive side of the ledger which are included in total assets are self-explanatory with the exception, perhaps, of the item entitled "equity in H-E.P.C. systems." The sinking fund portion of the cost paid year by year to the Commission for power is for the purpose of ultimately retiring the capital liabilities incurred by the Commission on behalf of the municipalities. A municipality's aggregate equity in the Commission's systems at any time is the total of the sinking fund payments that have been credited to it, together with interest. The total sinking fund equity acquired by these municipalities to the end of 1937 is shown in the consolidated balance sheet to be $40,032,438.34.

In conformity with a policy of service at cost to the customer, refunds by cash or credit were made during the year in many municipalities from surplus funds accrued to the credit of municipal services, such as street lighting, water works, sewage disposal, etc., and to individual customers. The amounts of the accumulated surpluses rebated equalled, in different municipalities, from five per cent to twenty-five per cent of the previous year's revenue. The total thus returned to customers during the year 1937 amounted in round figures to $450,000.00.

In each case the balance sheet includes the credit or charge representing the difference between the monthly payments for power at interim rates and the cost of power as ascertained by the Commission upon annual adjustment.

The reserves for depreciation, and the acquired equity in The Hydro-Electric Power Commission's systems, are listed individually and totalled; and under the heading "surplus" are included not only the free operating surplus but the accumulation of sinking fund applicable to debenture debt and also the amount of debentures already retired out of revenue.

The depreciation reserve now amounts to 25.4 per cent of the total depreciable plant, while the depreciation reserve and surplus combined have already reached the sum of $77,660,498.88, approximately 81.1 per cent of the total plant cost.

Statement "B" shows detailed operating reports for each municipal electrical utility. It gives annual revenues from the various classes of consumers; the items of expenditure which make up the total annual expenditure and the sums set aside for depreciation. The population served by each local utility and the number of consumers of each class are also shown.

The item "power purchased" in this statement includes the debit or credit balances ascertained by the annual adjustment of the cost of power supplied to the municipalities by the Commission.

Of the 287 municipal electric utilities included in this statement, 260 received from consumers revenue sufficient to meet in full all operating expenses, interest, debt retirement instalments, and standard depreciation reserve allocation and to yield an aggregate net surplus of $1,472,470.91 for the year; 24 were able to defray out of revenue all such charges except a portion of the standard depreciation allocation aggregating $7,644.09, in the case of three utilities the revenue was less than the total operating expenses, interest and debt retirement instalments by $1,868.01.

Statement "C" shows the installation of street lights in each municipality together with the rates approved by this Commission, the revenue for 1937 and the cost per capita in each municipality.

Statement "D" presents statistics relating to the supply of electrical energy to consumers in Ontario municipalities served by the Commission. It shows the revenue, kilowatt-hour consumption, number of consumers, average monthly consumption, average monthly bill and the net average cost per kilowatt-hour both for domestic and for commercial light service in each municipality. For power service this statement shows the revenue, the number of consumers and the average horsepower supplied by the municipal utility.* For further reference to this informative statement, consult the special introduction to it on page 000.

Statement "E" presents the cost per horsepower of the power provided for and delivered to the municipalities by the Commission, and the local rates to consumers in force in the respective municipalities, during the year 1937, for domestic service, for commercial light service and for power service.

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*The statistics include retail power only. Wholesale industrial power as supplied by the Commission direct, is reported in Section IX.

CONSOLIDATED

YEAR	1913	1914	1915
Number of municipalities included	45	69	99
	$ c.	$ c.	$ c.
Lands and buildings	626,707.34	791,732.20	873,838.18
Substation equipment	1,090,875.69	1,476,087.84	1,582,062.56
Distribution system—overhead	2,690,834.74	3,422,763.93	4,234,626.05
Distribution system—underground	644,514.24	807,153.53	928,420.77
Line transformers	615,546.20	787,613.52	981,754.70
Meters	840,606.64	1,172,475.11	1,418,165.08
Street lighting equipment—regular	900,614.80	1,071,255.37	1,309,628.49
Street lighting equipment—ornamental	62,765.34	270,386.55	197,644.82
Miscellaneous construction expenses	866,551.89	2,062,035.90	1,701,182.66
Steam or hydraulic plant	1,401,175.28	420,108.33	461,651.60
Old plant	341,277.00	619,513.12	1,184,372.86
Total plant	10,081,469.16	12,901,125.40	14,873,347.77
Bank and cash balance	450,887.97	422,350.12	284,653.96
Securities and investments	....	....	....
Accounts receivable	344,487.95	561,873.08	602,920.69
Inventories	540,274.58	615,226.76	726,556.76
Sinking fund on local debentures	431,747.27	625,217.03	868,983.78
Equity in H-E.P.C. systems	....	....	....
Other assets	58,959.93	123,410.97	326,801.11
Total assets	11,907,826.86	15,249,203.36	17,683,264.07
LIABILITIES			
Debenture balance	8,711,308.37	10,678,078.36	11,831,811.03
Accounts payable	1,553,711.45	1,682,150.29	2,040,038.01
Bank overdraft	160,919.16	228,622.50	292,106.44
Other liabilities	42,412.81	113,838.66	37,388.31
Total liabilities	10,468,351.79	12,702,689.81	14,201,343.79
RESERVES			
For equity in H-E.P.C. systems	....	....	....
For depreciation	478,145.88	850,618.07	1,337,739.73
Other reserves	....	....	....
Total reserves	478,145.88	850,618.07	1,337,739.73
SURPLUS			
Debentures paid	202,751.26	320,129.10	394,466.22
Local sinking fund	431,747.27	625,217.03	868,983.78
Operating surplus	326,830.66	750,549.35	880,730.55
Total surplus	961,329.19	1,695,895.48	2,144,180.55
Total liabilities, reserves and surplus	11,907,826.86	15,249,203.36	17,683,264.07
Percentage of net debt to total assets	88.0	88.3	80.3

NOTE—In computing the "percentage of net debt to total assets" the ornamental street lighting capital, sinking fund on local debentures, and equity in H-E.P.C. systems, are excluded from assets; and the total liabilities are reduced by the amount of the local sinking fund reserve,

BALANCE SHEET

1916	1917	1918	1919	1920	1921
128	143	166	191	195	215
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,335,936.33	1,546,241.41	1,859,888.69	1,995,545.83	2,175,568.24	3,230,985.63
1,934,626.12	2,471,293.82	2,820,488.70	2,915,125.56	3,231,050.80	5,403,689.90
4,832,353.27	6,090,073.42	6,627,237.39	7,445,820.31	8,579,881.49	8,397,361.48
1,095,709.62	1,157,059.90	1,216,288.59	1,206,296.88	1,313,369.29	1,401,135.97
1,179,132.07	1,483,839.44	1,772,691.35	2,073,113.45	2,560,581.59	3,077,649.83
1,711,299.49	1,999,095.48	2,238,143.70	2,587,566.32	3,053,135.20	3,552,076.79
1,251,057.13	1,237,734.69	1,200,625.65	1,206,638.71	1,269,006.98	1,335,997.13
306,388.95	361,975.74	531,502.61	546,497.68	557,678.13	610,586.70
2,059,263.42	2,184,015.84	2,395,096.50	2,530,101.08	2,697,636.12	3,030,134.16
864,500.01	896,753.20	214,575.75	986,200.57	757,194.47	704,848.46
759,748.66	649,852.51	1,476,413.00	805,959.89	864,298.39	912,388.55
17,330,015.07	20,077,935.45	22,352,951.93	24,298,866.28	27,059,400.70	31,656,854.60
1,061,029.90	340,026.50	391,194.91	462,437.23	943,858.12	900,842.34
....	....	....	627,076.53	341,855.88	477,678.69
695,152.23	1,285,097.33	1,124,018.44	1,921,166.69	2,022,538.88	2,155,788.62
764,504.59	1,261,398.36	972,996.96	1,032,569.75	1,400,671.89	1,504,596.28
1,166,017.73	1,337,578.96	1,663,298.05	1,925,455.77	2,244,004.34	2,541,718.35
....	....	....	369,071.89	577,584.06	795,570.51
342,215.87	125,240.05	444,787.63	86,216.05	25,447.07	78,929.84
21,358,935.39	24,427,276.65	26,949,247.92	30,722,860.19	34,615,360.94	40,111,979.23
15,058,641.57	15,593,773.61	17,209,217.70	18,133,462.44	19,268,072.04	21,619,220.99
969,187.75	1,537,669.11	1,007,727.79	1,420,926.66	1,840,137.54	1,887,567.93
178,413.26	886,177.94	576,816.49	403,235.57	514,671.99	989,099.98
491,874.90	429,104.20	350,013.21	670,271.90	642,293.65	938,368.84
16,698,117.48	18,446,724.86	19,143,775.19	20,627,896.57	22,265,175.22	25,434,257.74
....	....	....	373,871.89	577,584.06	800,249.05
1,843,804.68	2,463,723.83	3,133,550.17	3,750,162.28	4,788,645.03	5,491,858.93
....	....	....	....	....	....
1,843,804.68	2,463,723.83	3,133,550.17	4,124,034.17	5,366,229.09	6,292,107.98
549,778.59	694,797.90	920,076.56	1,328,657.68	1,440,156.52	1,860,079.53
1,165,785.94	1,340,615.38	1,662,602.69	1,754,020.37	2,246,474.47	2,541,718.35
1,101,448.70	1,481,414.68	2,089,243.31	2,888,251.40	3,297,325.64	3,983,815.63
2,817,013.23	3,516,827.96	4,671,922.56	5,970,929.45	6,983,956.63	8,385,613.51
21,358,935.39	24,427,276.65	26,949,247.92	30,722,860.19	34,615,360.94	40,111,979.23
78.4	75.5	71.0	67.9	65.4	64.7

and the liability in respect to the ornamental street lighting capital, which amount is included in other liabilities.

CONSOLIDATED

YEAR	1922	1923	1924
Number of municipalities included	226	235	248
ASSETS	$ c.	$ c.	$ c.
Lands and buildings	3,334,522.68	4,488,054.93	4,561,648.92
Substation equipment	5,046,857.98	6,015,919.75	6,800,238.00
Distribution system—overhead	11,165,330.24	13,135,581.76	14,182,190.33
Distribution system—underground	1,598,053.02	1,959,120.41	2,873,446.13
Line transformers	3,618,684.73	4,211,655.89	4,456,669.02
Meters	4,033,689.52	4,548,933.73	5,149,629.71
Street lighting equipment—regular	1,419,016.05	1,061,473.85	1,134,491.77
Street lighting equipment—ornamental	666,084.50	708,431.22	728,298.08
Miscellaneous construction expenses	3,261,495.74	3,681,274.88	4,168,262.21
Steam or hydraulic plant	565,158.54	566,619.86	4,196,803.45
Old plant	7,997,947.87	8,051,496.28	5,587,420.31
Total plant	42,706,840.87	48,428,562.56	53,839,097.93
Bank and cash balance	1,164,336.24	1,276,140.06	1,748,912.34
Securities and investments	443,938.18	1,153,424.47	1,329,622.58
Accounts receivable	3,874,317.14	3,198,769.34	3,898,751.89
Inventories	1,738,795.96	1,819,711.62	1,745,628.16
Sinking fund on local debentures	3,416,231.45	3,896,261.28	4,520,723.06
Equity in H-E.P.C. systems	1,543,434.12	2,929,603.94	5,420,567.58
Other assets	238,940.13	190,071.63	250,292.77
Total assets	55,126,834.09	62,892,544.90	72,753,596.31
LIABILITIES			
Debenture balance	30,454,186.12	33,056,501.29	38,005,162.50
Accounts payable	3,699,292.52	3,708,781.76	3,117,224.08
Bank overdraft	456,706.69	680,714.59	162,100.71
Other liabilities	586,203.02	1,517,828.47	1,780,564.27
Total liabilities	35,196,388.35	38,963,826.11	43,065,051.56
RESERVES			
For equity in H-E.P.C. systems	1,543,434.12	2,929,603.94	5,420,567.58
For depreciation	6,512,813.92	7,328,858.69	8,097,834.68
Other reserves	....	....	....
Total reserves	8,056,248.04	10,258,462.63	13,518,402.26
SURPLUS			
Debentures paid	3,104,591.15	2,852,038.38	3,530,610.35
Local sinking fund	3,416,231.45	3,896,261.28	4,520,723.06
Operating surplus	5,353,375.10	6,921,956.50	8,118,809.08
Total surplus	11,874,197.70	13,670,256.16	16,170,142.49
Total liabilities, reserves and surplus	55,126,834.09	62,892,544.90	72,753,596.31
Percentage of net debt to total assets	63.3	62.6	61.4

BALANCE SHEET—Continued

1925	1926	1927	1928	1929
247	251	252	256	260
$ c.	$ c.	$ c.	$ c.	$ c.
5,768,855.99	6,111,162.54	6,486,426.89	7,024,646.76	7,469,451.46
8,543,166.55	9,505,501.77	15,088,905.14	16,866,186.21	18,102,792.13
16,837,535.57	18,654,240.54	16,689,462.41	17,688,050.68	18,108,016.82
3,388,837.09	3,689,569.95	3,278,382.58	3,559,288.16	4,823,369.60
5,079,754.23	5,538,605.24	5,985,521.37	6,549,674.64	7,312,742.17
5,533,483.92	5,963,162.51	6,346,660.59	6,839,802.90	7,405,478.91
1,256,916.53	1,309,608.30	1,399,314.06	1,486,646.24	1,594,183.25
893,186.48	1,103,660.23	1,184,035.82	1,203,706.65	1,458,349.64
4,485,110.96	3,456,777.71	3,360,671.09	3,394,626.92	3,483,487.78
568,912.49	628,909.57	607,320.00	619,880.93	489,097.57
4,549,142.46	4,655,422.59	5,095,555.90	5,032,089.26	5,093,378.75
56,904,902.27	60,616,620.95	65,522,255.85	70,264,599.35	75,340,348.08
1,700,145.30	2,136,290.79	3,014,832.48	1,342,367.07	858,733.68
1,095,662.92	1,400,316.43	1,696,237.66	1,837,140.51	2,001,088.81
3,417,558.86	3,508,817.87	3,715,770.72	4,097,446.13	4,683,201.97
1,711,504.13	1,397,667.83	1,412,729.41	1,220,186.10	1,365,033.58
5,202.451.70	5,599,675.01	6,398,909.77	7,071,273.69	7,753,613.88
7,551,588.70	8,046,868.53	10,143,205.66	12,326,097.56	14,754,865.40
137,280.05	33,151.81	31,942.45	153,275.04	152,260.86
77,721,093.93	82,739,409.22	91,935,884.00	98,312,385.45	106,909,146.26
37,919,225.01	39,602,533.48	42,891,361.57	42,597,175.78	42,930,127.74
3,139,067.92	3,118,684.78	2,988,621.90	3,074,634.25	3,132,145.03
226,147.82	163,725.53	252,362.52	253,143.81	412,056.69
1,075,914.83	1,087,795.08	1,154,810.24	1,258,610.23	1,621,378.17
42,360,355.58	43,972,738.87	47,287,156.23	47,183,564.07	48,095,707.63
7,551,588.70	8,046,868.53	10,143,205.66	12,326,097.56	14,754,865.40
8,699,437.68	9,360,322.27	10,319,889.05	11,140,795.68	11,911,154.49
1,157,147.20	947,970.23	1,002,916.69	1,117,257.63	1,437,371.26
17,408,173.58	18,355,161.03	21,466,011.40	24,584,150.87	28,103,391.15
4,440,138.34	5,493,879.83	6,648,767.38	7,928,907.61	9,194,253.59
5,202,451.70	5,599,675.01	6,398,909.77	7,071,273.69	7,962,121.20
8,309,974.73	9,317,954.48	10,135,039.22	11,544,489.21	13,553,672.69
17,952,564.77	20,411,509.32	23,182,716.37	26,544,670.51	30,710,047.48
77,721,093.93	82,739,409.22	91,935,884.00	98,312,385.45	106,909,146.26
57.2	55.5	54.2	50.8	47.8

CONSOLIDATED

YEAR	1930	1931	1932
Number of municipalities included	267	275	280
ASSETS	$ c.	$ c.	$ c.
Lands and buildings	7,936,974.31	8,407,664.48	9,503,743.78
Substation equipment	19,485,056.28	21,013,956.74	22,288,781.68
Distribution system—overhead	19,220,326.48	19,918,355.76	20,866,767.32
Distribution system—underground	4,932,189.05	5,361,627.24	5,820,056.75
Line transformers	7,953,090.23	8,649,875.07	9,392,662.62
Meters	7,840,948.07	8,106,202.88	8,403,251.67
Street lighting equipment—regular	1,780,785.67	2,205,613.18	2,257,618.20
Street lighting equipment—ornamental	1,520,891.01	1,456,742.91	1,545,354.93
Miscellaneous construction expenses	3,996,747.77	3,827,132.05	4,120,926.11
Steam or hydraulic plant	139,587.28	458,374.05	498,231.69
Old plant	5,322,690.14	7,146,437.96	4,989,654.97
Other plants not distributed	....	....	200,000.00
Total plant	80,129,286.29	86,551,982.32	89,887,049.72
Bank and cash balance	2,722,250.12	2,738,319.67	3,185,442.00
Securities and investments	1,909,439.11	1,999,846.42	2,059,325.10
Accounts receivable	4,481,006.92	3,957,972.78	3,683,059.42
Inventories	1,242,994.51	1,276,531.01	1,232,209.52
Sinking fund on local debentures	8,396,255.47	8,735,050.84	9,099,210.61
Equity in H-E.P.C. systems	17,346,372.44	20,103,275.76	23,066,129.81
Other assets	173,030.05	174,879.28	163,637.79
Total assets	116,400,634.91	125,537,858.08	132,376,063.97
LIABILITIES			
Debenture balance	45,091,808.06	44,594,400.03	45,133,305.97
Accounts payable	3,001,186.21	5,382,306.13	3,512,724.58
Bank overdraft	405,663.14	312,575.54	298,910.20
Other liabilities	1,642,771.59	1,909,986.13	3,740,376.11
Total liabilities	50,141,429.00	52,199,267.83	52,685,316.86
RESERVES			
For equity in H-E.P.C. systems	17,346,372.44	20,103,275.76	23,066,129.81
For depreciation	12,885,387.51	13,748,049.68	14,902,177.02
Other reserves	1,574,655.74	1,693,129.83	1,902,308.64
Total reserves	31,806,415.69	35,544,455.27	39,870,615.47
SURPLUS			
Debentures paid	10,728,279.15	13,150,040.37	15,244,778.28
Local sinking fund	8,396,255.47	8,735,050.84	9,099,210.61
Operating surplus	15,328,255.60	15,909,043.77	15,476,142.75
Total surplus	34,452,790.22	37,794,134.98	39,820,131.64
Total liabilities, reserves and surplus	116,400,634.91	125,537,858.08	132,376,063.97
Percentage of net debt to total assets	46.0	44.1	43.4

BALANCE SHEET—Concluded

1933	1934	1935	1936	1937
282	282	284	283	287
$ c.	$ c.	$ c.	$ c.	$ c.
10,186,471.28	10,262,692.98	10,381,191.41	10,528,595.34	10,785,473.59
22,306,800.94	22,327,618.75	22,072,115.14	22,162,208.03	22,900,269.21
21,152,681.20	21,353,725.80	21,650,567.75	22,163,701.17	22,699,652.43
5,945,225.61	6,031,767.74	6,068,724.47	6,070,337.02	6,100,282.76
9,478,605.14	9,635,279.35	9,678,578.13	9,845,939.94	10,128,591.29
8,514,165.03	8,624,504.78	8,767,892.27	9,043,615.65	9,234,773.90
2,381,599.40	2,395,296.48	2,420,238.81	2,527,188.03	2,610,137.97
1,458,443.68	1,464,306.73	1,486,302.46	1,504,596.77	1,508,564.76
4,040,859.74	3,907,359.92	3,616,986.74	4,019,430.59	4,389,592.08
502,978.62	494,932.96	496,050.14	496,186.33	496,186.33
5,016,755.92	4,978,079.44	4,917,917.43	4,876,405.43	4,878,609.01
200,000.00	200,000.00	200,000.00	200,000.00	....
91,184,586.56	91,675,564.93	91,756,564.75	93,438,204.30	95,732,133.33
1,696,489.24	2,215,914.31	2,927,485.90	3,921,121.28	3,080,864.13
2,163,785.20	2,382,446.41	2,593,633.59	2,924,913.30	4,469,369.04
3,746,910.92	4,001,596.09	4,363,297.95	4,560,713.55	4,240,741.41
1,226,043.30	1,110,705.38	1,212,063.37	1,261,843.81	1,336,527.60
9,386,176.58	9,161,419.77	9,086,152.46	9,535,712.83	10,003,873.93
26,045,679.00	29,274,340.46	32,609,979.83	36,193,874.21	40,032,438.34
253,581.84	289,158.19	301,317.86	203,167.35	186,252.23
135,703,252.64	140,111,145.54	144,850,495.71	152,039,550.63	159,082,200.01
42,606,145.29	39,646,989.68	36,667,080.62	34,485,507.43	32,447,411.68
3,320,485.45	3,149,035.07	2,931,934.14	2,879,497.45	2,912,960.24
206,398.00	143,556.95	72,084.93	25,559.95	34,787.51
3,787,725.14	3,669,008.56	3,462,906.61	3,267,141.59	3,216,028.08
49,920,753.88	46,608,590.26	43,134,006.30	40,657,706.42	38,611,187.51
26,045,679.00	29,274,340.46	32,609,979.83	36,193,874.21	40,032,438.34
16,075,959.28	17,426,809.32	18,410,891.84	19,666,170.18	21,034,164.68
2,048,081.84	2,056,820.81	2,459,074.98	2,763,100.40	2,802,650.84
44,169,720.12	48,757,970.59	53,479,946.65	58,623,144.79	63,869,253.86
17,651,367.71	20,608,129.73	23,481,974.13	26,084,294.84	28,468,539.78
9,386,176.58	9,161,419.77	9,086,152.46	9,535,712.83	10,003,873.93
14,575,234.35	14,975,035.19	15,668,416.17	17,138,691.75	18,129,344.93
41,612,778.64	44,744,584.69	48,236,542.76	52,758,699.42	56,601,758.64
135,703,252.64	140,111,145.54	144,850,495.71	152,039,550.63	159,082,200.01
40.4	35.9	32.0	28.3	25.2

CONSOLIDATED

YEAR	1912	1913	1914	1915
Number of municipalities included	28	45	69	99
EARNINGS	$ c.	$ c.	$ c.	$ c.
Domestic service	...	572,154.38	789,130.81	944,271.08
Commercial light service	...	525,438.16	673,803.92	720,209.26
Commercial power service	...	905,378.17	1,214,829.31	1,501,797.78
Municipal power	...	...	...	...
Street lighting	...	560,925.56	698,409.71	835,970.87
Rural service	...	...	...	...
Miscellaneous	...	53,543.24	57,482.41	68,046.29
Total earnings	1,617,674.00	2,617,439.51	3,433,656.16	4,070,295.28
EXPENSES				
Power purchased	...	789,632.87	1,045,752.65	1,484,666.00
Substation operation	...	78,394.81	97,658.90	107,607.31
Substation maintenance	...	18,698.46	31,790.99	25,935.56
Distribution system, operation and maintenance	...	104,114.51	130,998.65	154,409.71
Line transformer maintenance	...	8,547.61	11,764.32	11,508.92
Meter maintenance	...	5,222.19	9,536.07	12,899.14
Consumers' premises expenses	...	53,108.38	65,192.23	47,494.26
Street lighting, operation and maintenance	...	84,903.76	113,047.80	136,983.38
Promotion of business	...	72,303.51	86,683.02	74,402.55
Billing and collecting	...	77,351.76	103,560.71	131,541.27
General office, salaries and expenses	...	154,932.69	230,899.75	236,777.86
Undistributed expense	...	65,423.64	89,350.91	129,209.15
Interest	...	528,549.21	662,092.34	817,978.89
Sinking fund and principal payments on debentures	...	*	*	*
Total expenses	1,377,168.00	2,041,183.40	2,678,328.34	3,371,414.00
Surplus	240,506.00	576,256.11	755,327.82	698,881.28
Depreciation and other reserves	124,992.47	262,675.24	357,883.31	414,506.99
Surplus less depreciation	115,513.53	313,580.87	397,444.51	284,374.29

*Debenture payments included in "Interest."

OPERATING REPORT

1916	1917	1918	1919	1920	1921
128	143	166	181	186	205
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,172,878.96	1,417,460.31	1,632,272.12	1,991,632.31	2,546,345.30	3,149,080.03
812,130.78	899,023.72	968,399.42	1,175,143.56	1,512,854.63	1,851,501.76
1,921,152.31	2,665,280.65	3,417,248.37	3,443,107.13	3,752,188.22	3,895,437.46
....	....	....	....	532,279.09	654,531.01
930,057.48	967,495.10	902,875.55	988,900.95	1,005,535.11	1,060,357.77
....	....	....	....	168,919.95	145,566.57
147,381.50	120,805.39	161,243.70	228,270.65	189,778.63	225,467.70
4,983,601.03	6,070,065.17	7,082,039.16	7,827,054.60	9,707,900.93	10,981,942.30
1,959,446.83	2,573,879.37	2,807,769.33	3,284,490.68	4,216,667.87	4,876,650.31
153,761.08	203,091.20	238,257.34	217,638.89	285,407.35	314,838.35
46,131.53	42,129.04	60,805.92	81,853.63	102,050.81	104,798.01
154,247.17	169,326.24	223,347.81	286,310.76	344,551.57	487,918.33
14,528.17	25,328.95	30,488.83	42,509.12	46,323.09	65,088.46
24,218.48	44,461.55	63,155.56	78,726.64	123,701.18	116,722.97
52,602.01	61,765.14	65,149.59	84,301.24	116,283.52	134,854.92
145,471.50	157,857.73	196,157.18	215,963.86	236,930.79	297,481.52
79,324.85	73,516.37	64,962.78	74,789.22	78,294.85	101,804.46
154,508.58	188,083.84	208,660.76	236,504.75	295,942.88	321,685.71
306,709.35	349,932.05	421,680.15	452,131.22	559,695.29	656,268.11
97,333.97	102,938.80	117,474.07	190,690.09	256,400.33	308,874.42
951,781.99	1,085,180.80	1,238,425.53	1,285,571.51	1,431,807.16	998,611.47
*	*	*	*	*	532,183.96
4,140,065.51	5,077,491.08	5,736,334.85	6,531,481.61	8,094,056.69	9,317,781.00
843,535.52	992,574.09	1,345,704.31	1,295,572.99	1,613,844.24	1,664,161.30
486,141.80	607,296.29	718,162.30	814,219.37	902,028.75	1,044,434.85
357,393.72	385,277.80	627,542.01	481,353.62	711,815.49	619,726.45

CONSOLIDATED

YEAR	1922	1923	1924
Number of municipalities included	214	224	241
EARNINGS	$ c.	$ c.	$ c.
Domestic service	3,786,608.23	5,166,452.24	5,993,231.07
Commercial light service	2,158,306.34	3,260,772.50	3,566,227.22
Commercial power service	4,383,912.97	5,927,666.37	6,222,865.88
Municipal power	973,263.38	1,161,598.60	1,352,966.47
Street lighting	1,160,446.81	1,269,604.48	1,356,668.97
Rural service	105,877.09	116,639.06	75,100.24
Miscellaneous	187,689.39	316,311.21	231,663.58
Total earnings	12,756,104.21	17,219,044.46	18,798,723.43
EXPENSES			
Power purchased	6,636,853.37	8,699,026.67	9,669,789.40
Substation operation	315,443.70	474,442.13	430,056.09
Substation maintenance	100,763.67	133,815.53	202,050.04
Distribution system, operation and maintenance	519,252.16	636,477.41	648,700.62
Line transformer maintenance	52,932.26	75,920.10	82,936.50
Meter maintenance	107,806.88	139,104.81	141,231.23
Consumers' premises expenses	143,388.88	218,682.02	237,316.20
Street lighting, operation and maintenance	297,363.86	299,579.08	269,973.30
Promotion of business	129,932.63	184,371.00	202,060.74
Billing and collecting	338,153.50	444,306.92	490,273.30
General office, salaries and expenses	605,852.50	937,463.47	889,907.66
Undistributed expense	385,895.03	359,206.91	494,078.50
Truck operation and maintenance	....	....	....
Interest	1,074,657.44	1,615,205.16	1,779,991.26
Sinking fund and principal payments on debentures	635,469.90	990,907.14	1,122,798.87
Total expenses	11,343,765.78	15,208,508.35	16,661,163.71
Surplus	1,412,338.43	2,010,536.11	2,137,559.72
Depreciation and other reserves	715,814.24	916,782.75	973,649.62
Surplus less depreciation	696,524.19	1,093,753.36	1,163,910.10

OPERATING REPORT—Continued

1925	1926	1927	1928	1929
242	248	251	255	259
$ c.	$ c.	$ c.	$ c.	$ c.
6,439,159.86	7,372,602.62	8,189,866.89	8,925,050.56	9,873,681.57
3,866,292.79	4,187,899.19	4,626,815.51	5,182,723.32	5,697,766.06
6,568,854.77	6,789,217.54	7,342,173.20	8,298,669.44	9,376,158.74
1,923,093.09	1,922,512.34	1,913,502.88	1,921,300.97	2,086,444.24
1,415,382.22	1,457,686.21	1,489,242.37	1,534,476.98	1,598,262.43
37,975.18	37,810.73	13,765.72 ‡	48,451.90*	51,590.54*
286,451.08	471,134.15	581,913.04	465,791.92	522,780.95
20,537,208.99	22,238,862.78	24,157,279.61	26,376,465.09	29,206,684.53
11,063,123.34	12,185,669.10	13,505,583.77	14,688,570.08	16,379,162.88
417,921.71	450,416.84	430,211.76	420,512.48	461,270.27
207,497.63	286,520.37	275,148.86	247,647.88	274,275.56
686,344.54	795,514.70	758,747.10	736,159.85	907,817.04
75,473.28	74,876.11	94,706.38	88,676.18	93,608.14
156,909.55	189,603.70	214,813.87	218,530.96	242,126.27
252,808.47	275,020.62	285,352.68	291,333.03	314,495.03
275,316.60	295,869.37	318,395.79	329,597.16	359,373.40
217,102.24	234,696.74	220,687.60	249,842.01	250,844.28
521,134.01	557,271.54	605,627.58	638,797.02	695,729.42
891,640.29	786,742.60	824,868.90	844,578.55	904,025.64
520,584.58	460,288.30	531,003.80	542,755.34	502,206.06
....	....	....	....	110,630.62
1,889,810.95	1,985,233.73	2,063,698.00	2,111,049.49	2,152,695.49
1,294,027.29	1,347,511.92	1,505,626.31	1,601,711.32	1,687,201.64
18,469,694.48	19,925,235.64	21,634,472.40	23,009,761.35	25,335,461.74
2,067,514.51	2,313,627.14	2,522,807.21	3,366,703.74	3,871,222.79
1,068,880.42	1,146,273.05	1,249,711.65	1,350,252.16	1,469,846.83
998,634.09	1,167,354.09	1,273,095.56	2,016,451.58	2,401,375.96

*See footnote on page 313.

CONSOLIDATED

YEAR	1930	1931	1932
Number of municipalities included	267	275	280
EARNINGS	$ c.	$ c.	$ c.
Domestic service	10,542,903.89	10,972,952.10	11,447,307.85
Commercial light service	5,961,383.23	6,230,475.89	6,243,794.01
Commercial power service	9,340,653.28	9,456,224.97	9,356,693.88
Municipal power	2,111,482.38	1,967,118.54	1,859,585.35
Street lighting	1,674,528.03	1,746,855.24	1,783,972.46
Merchandise*	28,954.60*	29,446.38*	11,069.27*
Miscellaneous	581,914.78	511,139.80	513,787.30
Total earnings	30,241,820.19	30,914,212.92	31,216,210.12
EXPENSES			
Power purchased	17,323,077.97	18,085,166.51	19,109,036.25
Substation operation	479,502.48	487,484.17	503,351.82
Substation maintenance	320,716.48	303,536.11	300,186.15
Distribution system, operation and maintenance	991,972.86	1,015,256.14	969,750.51
Line transformer maintenance	96,746.35	93,463.24	95,485.55
Meter maintenance	278,379.43	284,633.88	300,104.85
Consumers' premises expenses	317,902.45	363,078.47	368,208.73
Street lighting, operation and maintenance	372,211.17	368,119.49	360,709.76
Promotion of business	249,070.05	255,956.03	266,760.84
Billing and collecting	745,159.02	792,983.99	818,721.33
General office, salaries and expenses	907,226.89	923,676.84	960,558.88
Undistributed expense	523,862.96	520,893.10	436,692.96
Truck operation and maintenance	112,029.82	107,918.93	112,059.90
Interest	2,220,214.45	2,328,094.32	2,532,940.93
Sinking fund and principal payments on debentures	1,828,061.62	2,061,718.79	2,244,367.86
Total expenses	26,766,134.00	27,991,980.01	29,378,936.42
Surplus	3,475,686.19	2,922,232.91	1,837,273.70
Depreciation and other reserves	1,574,991.68	1,775,330.69	1,920,896.22
Surplus less depreciation	1,900,694.51	1,146,902.22	83,622.52 (Loss)

OPERATING REPORT—Concluded

1933	1934	1935	1936	1937
282	282	284	283	287
$ c.	$ c.	$ c.	$ c.	$ c.
11,429,101.13	11,844,033.10	12,145,219.89	12,682,140.18	12,448,345.63
6,013,025.96	6,206,086.35	6,458,748.57	6,815,439.16	6,510,685.15
9,080,522.07	9,692,784.37	10,211,968.71	10,694,192.44	11,063,764.43
1,826,872.07	1,875,969.80	1,821,285.82	1,817,986.94	1,731,311.34
1,779,582.48	1,777,596.69	1,788,760.38	1,799,420.87	1,781,363.37
12,812.74*	18,747.73*	21,669.98*	23,158.76*	22,971.02*
485,925.43	555,172.04	562,285.82	575,825.49	607,035.54
30,627,841.88	31,970,390.08	33,009,939.17	34,408,163.84	34,165,476.48
19,330,861.58	19,591,887.79	20,053,676.40	20,486,582.65	20,532,736.85
484,764.57	468,944.09	478,813.83	478,855.71	490,737.94
288,583.29	296,550.52	297,127.27	301,897.24	300,389.49
895,350.99	844,813.95	830,633.88	855,576.02	889,990.11
82,321.32	75,172.18	70,749.63	72,711.67	81,365.18
283,115.98	291,402.79	313,234.11	328,410.90	343,658.47
361,499.20	352,499.09	340,761.52	306,644.80	420,366.36
353,082.15	338,784.80	340,120.36	356,932.01	364,325.53
259,936.42	228,741.36	252,648.33	288,338.93	294,574.21
817,660.03	827,860.20	835,375.90	945,892.70	980,540.10
908,517.79	908,039.75	943,880.18	967,269.06	940,890.76
349,101.36	362,322.12	360,676.96	448,332.98	476,370.44
105,452.68	98,081.61	95,150.54	69,805.06	77,995.38
2,426,286.35	2,204,994.25	2,040,130.35	1,893,304.28	1,752,287.58
2,319,319.09	2,358,169.12	2,423,088.34	2,448,223.80	2,429,565.06
29,265,852.80	29,248,263.62	29,686,067.60	30,248,777.81	30,375,793.46
1,361,989.08	2,722,126.46	3,323,871.57	4,159,386.03	3,789,683.02
1,989,000.41	2,036,637.33	2,076,322.24	2,230,021.86	2,329,625.64
627,011.33 (loss)	685,489.13	1,247,549.33	1,929,364.17	1,460,057.38

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*Profits from the sale of merchandise. Rural service now given in "Rural Power Districts." Consult Section IX.

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM

Municipality	Acton	Agincourt	Ailsa Craig	Alvinston	Amherstburg
Population	1,993	P.V.	452	643	2,879
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	1,545.45			133.56	
Substation equipment	1,847.39				932.00
Distribution system—overhead	25,157.56	8,686.31	7,609.85	14,118.71	36,570.03
Distribution system—underground					
Line transformers	11,310.93	4,119.68	1,761.29	2,980.49	16,895.43
Meters	10,839.34	2,697.14	2,443.67	3,092.08	16,249.92
Street light equipment, regular	2,012.76	874.51	412.24	1,090.62	812.44
Street light equipment, ornamental					5,598.72
Miscellaneous construction expense	3,541.97	147.84	492.36	1,059.06	3,252.98
Steam or hydraulic plant					
Old plant				773.85	
Total plant	56,255.40	16,525.48	12,719.41	23,248.37	80,311.52
Bank and cash balance	4,215.04	711.18	5,855.17	1,102.94	11,207.47
Securities and investments	6,500.00	5,000.00	5,000.00	8,500.00	
Accounts receivable	1,655.71	771.99	1,324.88	820.37	5,574.07
Inventories	1,068.27				
Sinking fund on local debentures					
Equity in H-E.P.C. systems	55,180.77	8,588.06	12,930.98	12,851.89	42,147.91
Other assets	208.59				3,743.97
Total assets	125,083.78	31,596.71	37,830.44	46,523.57	142,984.94
Deficit					
Total	125,083.78	31,596.71	37,830.44	46,523.57	142,984.94
LIABILITIES					
Debenture balance		775.15		7,637.68	16,186.79
Accounts payable		164.09			2,646.13
Bank overdraft					
Other liabilities	819.70		176.00	55.00	7,880.02
Total liabilities	819.70	939.24	176.00	7,692.68	26,712.94
RESERVES					
For equity in H-E.P.C. systems	55,180.77	8,588.06	12,930.98	12,851.89	42,147.91
For depreciation	10,042.52	2,077.31	6,302.40	7,265.14	21,548.17
Other reserves				75.00	316.01
Total reserves	65,223.29	10,665.37	19,233.38	20,192.03	64,012.09
SURPLUS					
Debentures paid	14,500.00	7,297.50	6,883.38	15,891.56	15,866.81
Local sinking fund					
Operating surplus	44,540.79	12,694.60	11,537.68	2,747.30	36,393.10
Total surplus	59,040.79	19,992.10	18,421.06	18,638.86	52,259.91
Total liabilities, reserves and surplus	125,083.78	31,596.71	37,830.44	46,523.57	142,984.94
Percentage of net debt to total assets	1.2	4.1	0.7	22.8	22.2

NOTE—In computing the "percentage of net debt to total assets," the ornamental street lighting capital, sinking fund on local debentures, and equity in H-E.P.C. systems, are excluded

"A"

Hydro Municipalities as at December 31, 1937

Ancaster Twp.	Arkona 415	Aylmer 1,995	Ayr 770	Baden P.V.	Beachville P.V.	Beamsville 1,208
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c
....	....	9,019.23	125.00	660.64	176.13	....
....	....	....	....	....	....	....
16,396.90	9,572.99	21,334.95	12,577.30	9,080.10	14,106.51	27,224.00
....	....	....	....	....	....	....
10,866.90	1,706.44	10,917.47	4,154.96	6,275.00	3,550.21	11,540.00
4,642.17	1,584.70	10,676.54	3,842.34	3,317.85	3,370.72	6,222.00
1,372.59	750.31	1,821.59	610.17	613.66	444.23	2,770.00
....	....	....	....	....	....	....
922.87	211.99	1,295.22	1,120.54	198.62	602.04	314.85
....	....	....	....	....	....	....
....	1,030.30	6,719.17	4,002.53	....	....	....
34,201.43	14,856.73	61,784.17	26,432.84	20,145.87	22,249.84	48,070.85
....	691.17	5,548.05	1,571.77	1,297.77	2,021.71	266.08
....	....	12,000.00	....	....	4,000.00	....
2,132.19	178.18	2,400.78	1,345.19	1,240.19	1,462.60	3,258.53
....	....	....	....	....	....	....
....	....	....	....	....	....	....
13,115.01	4,874.10	34,022.57	12,042.74	26,691.31	33,701.66	447.79
....	....	....	....	....	....	668.81
49,448.63	20,600.18	115,755.57	41,392.54	49,375.14	63,435.81	52,712.06
....	1,200.44	....	....	....	....	....
49,448.63	21,800.62	115,755.57	41,392.54	49,375.14	63,435.81	52,712.06
6,571.64	7,155.97	14,282.97	5,366.21	1,153.35	1,275.94	37,500.00
1,142.43	1,147.91	....	....	325.26	....	314.85
1,539.65	....	....	....	....	....	....
232.42	7.17	177.00	8.00	....	....	677.81
9,486.14	8,311.05	14,459.97	5,374.21	1,478.61	1,275.94	38,492.66
13,115.01	4,874.10	34,022.57	12,042.74	26,691.31	33,701.66	447.79
8,285.73	2,658.61	14,085.18	5,567.39	2,352.35	7,335.46	10,256.00
....	....	658.03	....	....	....	....
21,400.74	7,532.71	48,765.78	17,610.13	29,043.66	41,037.12	10,703.79
4,217.94	5,956.86	24,418.95	12,137.17	3,846.65	4,077.06	....
....	....	....	....	....	....	....
14,343.81	....	28,110.87	6,271.03	15,006.22	17,045.69	3,515.61
18,561.75	5,956.86	52,529.82	18,408.20	18,852.87	21,122.75	3,515.61
49,448.63	21,800.62	115,755.57	41,392.54	49,375.14	63,435.81	52,712.06
26.1	52.8	17.7	18.3	6.5	4.3	73.7

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from assets; and the total liabilities are reduced by the amount of the local sinking fund reserve, and the liability in respect to the ornamental street lighting capital, which amount is included in other liabilities.

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Belle River	Blenheim	Blyth	Bolton	Bothwell
Population	748	1,755	624	569	642
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	....	60.00	....	....	....
Substation equipment	....	909.64	....	....	....
Distribution system—overhead	17,485.05	28,454.84	11,597.77	10,000.21	6,240.44
Distribution system—underground	....	....	....	....	....
Line transformers	4,408.06	8,776.58	2,449.70	4,688.27	2,492.37
Meters	3,906.50	9,989.88	2,195.28	3,165.93	2,961.19
Street light equipment, regular	1,063.75	3,761.11	1,569.43	856.19	209.51
Street light equipment, ornamental	....	1,482.97	....	....	4,431.19
Miscellaneous construction expense	1,085.15	733.12	267.61	1,211.02	501.96
Steam or hydraulic plant	....	....	....	....	....
Old plant	....	....	2,096.17	1,554.60	....
Total plant	27,948.51	54,168.14	20,175.96	21,476.22	16,836.66
Bank and cash balance	2,397.05	4,682.06	3,333.66	1,261.29	4,510.81
Securities and investments	....	5,000.00	....	3,000.00	11,000.00
Accounts receivable	1,592.33	1,925.92	1,314.88	1,302.46	805.64
Inventories	....	1,208.86	....	....	24.76
Sinking fund on local debentures	....	....	....	....	....
Equity in H-E.P.C. systems	8,115.57	30,546.46	7,723.42	14,588.40	14,782.37
Other assets	....	....	....	....	....
Total assets	40,053.46	97,531.44	32,547.92	41,628.37	47,960.24
Deficit	....	....	....	....	....
Total	40,053.46	97,531.44	32,547.92	41,628.37	47,960.24
LIABILITIES					
Debenture balance	....	6,316.08	4,496.16	3,576.51	2,255.68
Accounts payable	79.10	882.93	....	50.00	....
Bank overdraft	....	....	....	....	....
Other liabilities	184.00	1,662.97	165.00	....	1,186.22
Total liabilities	263.10	8,861.98	4,661.16	3,626.51	3,441.90
RESERVES					
For equity in H-E.P.C. systems	8,115.57	30,546.46	7,723.42	14,588.40	14,782.37
For depreciation	7,406.45	15,330.56	4,441.62	7,012.31	7,527.84
Other reserves	5,000.00	181.82	....	....	25.02
Total reserves	20,522.02	46,058.84	12,165.04	21,600.71	22,335.23
SURPLUS					
Debentures paid	8,500.00	7,683.92	11,536.36	8,923.49	3,278.51
Local sinking fund	....	....	....	....	....
Operating surplus	10,768.34	34,926.70	4,185.36	7,477.66	18,904.60
Total surplus	19,268.34	42,610.62	15,721.72	16,401.15	22,183.11
Total liabilities, reserves and surplus	40,053.46	97,531.44	32,547.92	41,628.37	47,960.24
Percentage of net debt to total assets	0.8	11.3	18.8	13.4	8.0

"A"—Continued

Hydro Municipalities as at December 31, 1937

Brampton 5,568	Brantford 31,232	Brantford Twp.	Bridgeport P.V.	Brigden P.V.	Brussels 787	Burford P.V.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
5,355.12	109,577.31	....	....	101.03	....	202.00
34,176.39	223,817.23	1,192.71	....	....	....	....
51,199.98	272,161.99	59,009.49	9,864.67	7,288.55	13,699.16	9,289.55
....	....	....	....	....	....	....
33,202.11	147,908.99	17,474.92	3,275.45	2,060.02	2,402.70	3,121.12
28,734.25	138,842.14	13,569.28	2,438.02	2,366.15	4,092.46	3,493.95
2,731.09	24,428.33	4,739.14	1,605.09	470.43	1,587.79	425.14
....	38,922.18	....	....	....	....	....
19,247.19	31,342.05	2,844.08	627.77	920.57	1,572.29	737.28
....	....	....	....	....	....	....
....	7,257.00	....	....	1,381.00	2,827.50	....
174,646.13	994,257.22	98,829.62	17,811.00	14,587.75	26,181.90	17,269.04
50.00	34,039.66	3,613.04	509.60	1,838.40	4,281.12	2,545.43
3,879.67	17,500.00	....	....	1,000.00	5,000.00	4,000.00
7,020.92	32,332.07	2,512.23	484.21	502.69	1,013.60	604.22
149.02	10,587.12	....	....	....	....	....
....	....	4,603.70	....	....	....	....
137,759.37	723,880.44	25,985.67	4,735.00	9,896.87	10,532.62	11,086.96
....	....	....	....	....	....	....
323,505.11	1,812,596.51	135,544.26	23,539.81	27,825.71	47,009.24	35,505.65
....	....	....	....	....	....	....
323,505.11	1,812,596.51	135,544.26	23,539.81	27,825.71	47,009.24	35,505.65
4,645.21	100,000.00	8,779.31	9,294.18	....	8,778.32	....
2,695.12	423.04	....	221.99	....	1,757.34	....
4,049.01	....	....	....	....	....	....
140.00	57,150.85	1,811.16	158.55	25.00	11.23	52.08
11,529.34	157,573.89	10,590.47	9,674.72	25.00	10,546.89	52.08
137,759.37	723,880.44	25,985.67	4,735.00	9,896.87	10,532.62	11,086.96
53,599.61	330,337.20	24,950.69	5,667.77	4,547.90	6,491.35	5,548.27
192.29	7,939.30	98.77	....	76.38	....	....
191,551.27	1,062,156.94	51,035.13	10,402.77	14,521.15	17,023.97	16,635.23
64,405.43	430,000.00	48,346.35	3,073.85	8,000.00	12,221.68	9,000.00
....	....	4,603.70	....	....	....	....
56,019.07	162,865.68	20,968.61	388.47	5,279.56	7,216.70	9,818.34
120,424.50	592,865.68	73,918.66	3,462.32	13,279.56	19,438.38	18,818.34
323,505.11	1,812,596.51	135,544.26	23,539.81	27,825.71	47,009.24	35,505.65
6.2	11.4	5.7	51.5	0.1	28.9	0.2

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality Population	Burgessville P.V.	Caledonia 1,370	Campbellville P.V.	Cayuga 674	Chatham 15,910
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	....	177.34	....	....	80,660.86
Substation equipment	....	....	....	....	124,712.92
Distribution system—overhead	3,578.93	18,575.48	2,982.19	14,995.69	151,780.71
Distribution system—underground	....	....	....	....	83,264.11
Line transformers	1,384.40	6,473.62	820.55	3,402.17	84,799.56
Meters	1,025.98	6,917.76	602.20	3,170.81	71,011.04
Street light equipment, regular	261.02	1,582.94	335.61	960.89	18,877.79
Street light equipment, ornamental	....	....	....	....	35,426.10
Miscellaneous construction expense	457.22	1,078.43	45.82	644.72	34,416.57
Steam or hydraulic plant	....	....	....	....	....
Old plant	....	....	....	....	42,752.31
Total plant	6,707.55	34,805.57	4,786.37	23,174.28	727,701.97
Bank and cash balance	104.54	1,322.47	718.28	1,182.15	23,591.98
Securities and investments	....	2,000.00	1,000.00	1,500.00	10,000.00
Accounts receivable	10.48	802.95	457.30	1,534.17	37,773.29
Inventories	....	....	....	664.78	6,039.94
Sinking fund on local debentures	....	....	....	....	....
Equity in H-E.P.C. systems	4,415.99	18,195.73	1,968.95	7,541.92	320,462.33
Other assets	....	....	....	....	....
Total assets	11,238.56	57,126.72	8,930.90	35,597.30	1,125,569.51
Deficit	....	....	....	....	....
Total	11,238.56	57,126.72	8,930.90	35,597.30	1,125,569.51
LIABILITIES					
Debenture balance	....	665.39	2,400.80	9,510.94	177,161.39
Accounts payable	45.53	....	5.89	64.23	13,903.44
Bank overdraft	....	....	....	....	....
Other liabilities	....	9.50	....	125.00	41,925.72
Total liabilities	45.53	674.89	2,406.69	9,700.17	232,990.55
RESERVES					
For equity in H-E.P.C. systems	4,415.99	18,195.73	1,968.95	7,541.92	320,462.33
For depreciation	2,773.23	2,446.53	1,073.84	5,105.06	164,834.25
Other reserves	....	....	....	16.21	17,810.63
Total reserves	7,189.22	20,642.26	3,042.79	12,663.19	503,107.21
SURPLUS					
Debentures paid	3,500.00	3,958.61	3,046.97	10,489.06	192,838.61
Local sinking fund	....	....	....	....	....
Operating surplus	503.81	31,850.96	434.45	2,744.88	196,633.14
Total surplus	4,003.81	35,809.57	3,481.42	13,233.94	389,471.75
Total liabilities, reserves and surplus	11,238.56	57,126.72	8,930.90	35,597.30	1,125,569.51
Percentage of net debt to total assets	0.7	1.7	34.6	34.6	25.6

"A"—Continued

Hydro Municipalities as at December 31, 1937

Chippawa 1,187	Clifford 441	Clinton 1,865	Comber P.V.	Cottam P.V.	Courtright 286	Dashwood P.V.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,431.37	....	8,760.82	62.00	....	....	....
....	....	7,598.09	....	....	....	....
20,313.31	7,796.31	24,662.49	7,507.07	9,513.84	6,539.99	3,499.11
....	....	....	....	....	....	....
6,289.06	1,077.29	9,599.23	3,606.34	1,903.31	1,225.40	2,400.81
5,282.33	2,368.74	10,140.78	2,554.23	1,798.79	880.37	1,548.87
3,545.46	774.83	5,631.85	423.35	366.43	425.08	353.42
....	....	....	....	....	....	....
2,057.96	37.44	4,074.22	1,037.63	232.54	558.67	291.87
....	....	....	....	....	....	....
....	....	10,658.09	....	....	....	....
38,919.49	12,054.61	81,125.57	15,190.62	13,814.91	9,629.51	8,094.08
914.20	1,595.22	2,511.86	2,946.14	3,018.58	1,462.96	987.08
....	....	3,000.00	3,000.00	3,000.00	....	1,500.00
510.45	412.04	1,800.02	833.09	277.61	239.04	583.00
....	....	2,752.25	....	....	....	....
....	....	37,136.56	....	....	....	....
14,059.30	5,466.76	38,117.37	15,718.68	3,298.69	4,610.14	6,939.79
....	....	....	....	....	....	....
54,403.44	19,528.63	166,443.63	37,688.53	23,409.79	15,941.65	18,103.95
....	....	....	....	....	....	....
54,403.44	19,528.63	166,443.63	37,688.53	23,409.79	15,941.65	18,103.95
2,912.87	5,980.35	40,500.00	617.56	5,235.88	756.55	1,626.46
1,196.62	....	515.25	28.06	28.50	....	16.40
....	....	....	....	....	....	....
402.00	....	378.81	32.00	190.00	....	....
4,511.49	5,980.35	41,394.06	677.62	5,454.38	756.55	1,642.86
14,059.30	5,466.76	38,117.37	15,718.68	3,298.69	4,610.14	6,939.79
7,770.98	2,475.83	25,119.63	6,181.34	3,962.63	1,662.78	2,679.77
....	....	575.04	....	....	....	....
21,830.28	7,942.59	63,812.04	21,900.02	7,261.32	6,272.92	9,619.56
10,437.13	2,019.65	4,000.00	7,082.44	3,764.34	7,381.80	1,773.54
....	....	37,136.56	....	....	....	....
17,624.54	3,586.04	20,100.97	8,028.45	6,929.75	1,530.38	5,067.99
28,061.67	5,605.69	61,237.53	15,110.89	10,694.09	8,912.18	6,841.53
54,403.44	19,528.63	166,443.63	37,688.53	23,409.79	15,941.65	18,103.95
11.2	42.5	4.7	3.1	27.0	6.7	14.7

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Delaware	Dorchester	Drayton	Dresden	Drumbo
Population	P.V.	P.V.	566	1,468	P.V.
Assets	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings					
Substation equipment				523.00	
Distribution system—overhead	3,986.62	9,046.58	9,830.74	19,137.05	4,663.92
Distribution system—underground					
Line transformers	1,001.44	3,046.56	3,376.80	7,508.37	1,651.50
Meters	1,038.41	2,481.13	3,413.98	6,376.17	1,863.92
Street light equipment, regular	202.58	685.39	772.21	1,127.48	262.27
Street light equipment, ornamental					
Miscellaneous construction expense	203.81	407.54	430.53	1,530.50	235.58
Steam or hydraulic plant					
Old plant				4,815.01	
Total plant	6,432.86	15,667.20	17,824.26	41,017.58	8,677.19
Bank and cash balance	848.38	803.96	1,170.74	1,421.43	5,738.68
Securities and investments	3,000.00	2,000.00	5,000.00	2,500.00	
Accounts receivable	676.34	544.32	546.32	6,334.58	216.51
Inventories				647.72	
Sinking fund on local debentures					
Equity in H-E.P.C. systems	2,481.34	6,042.22	10,077.55	25,820.37	5,274.32
Other assets					
Total assets	13,438.92	25,057.70	34,618.87	77,741.68	19,906.70
Deficit					
Total	13,438.92	25,057.70	34,618.87	77,741.68	19,906.70
Liabilities					
Debenture balance	1,506.27	1,808.33	5,079.68		1,693.84
Accounts payable	89.78		709.77	1,148.93	
Bank overdraft					
Other liabilities		30.50		203.00	
Total liabilities	1,596.05	1,838.83	5,789.45	1,351.93	1,693.84
Reserves					
For equity in H-E.P.C. systems	2,481.34	6,042.22	10,077.55	25,820.37	5,274.32
For depreciation	1,334.06	2,785.97	6,942.09	5,651.70	4,120.76
Other reserves	30.00	64.15		267.44	
Total reserves	3,845.40	8,892.34	17,019.64	31,739.51	9,395.08
Surplus					
Debentures paid	2,493.73	2,491.67	4,420.32	16,238.25	2,806.16
Local sinking fund					
Operating surplus	5,503.74	11,834.86	7,389.46	28,411.99	6,011.62
Total surplus	7,997.47	14,326.53	11,809.78	44,650.24	8,817.78
Total liabilities, reserves and surplus	13,438.92	25,057.70	34,618.87	77,741.68	19,906.70
Percentage of net debt to total assets	14.6	9.7	23.6	2.5	11.6

"A"—Continued

Hydro Municipalities as at December 31, 1937

Dublin	Dundas	Dunnville	Dutton	East York Twp.	Elmira	Elora
P.V.	4,757	4,001	776		2,063	1,138
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
....	12,111.11	3,356.09	75.11	17,018.18	7,421.01	1,524.54
....	13,396.22	27,507.57	....	8,893.55	....	....
5,902.30	50,692.95	39,066.78	9,177.94	300,831.78	35,020.09	17,478.75
....	....	....	....	....	....	....
839.38	19,870.42	19,920.78	3,654.29	84,483.25	15,215.67	7,704.49
969.04	19,999.86	18,043.36	3,447.56	145,750.10	12,799.43	6,011.13
544.86	11,113.78	8,012.37	659.31	21,810.66	1,428.86	1,245.99
....	1,154.52	....	....	....	....	....
787.06	8,023.44	6,825.24	317.03	20,974.77	3,271.44	1,030.77
....	....	....	....	....	....	....
....	1,867.38	10,717.62	....	....	2,168.08	1,425.47
9,042.64	138,229.68	133,449.81	17,331.24	599,762.29	77,324.58	36,421.14
821.84	28,772.54	7,143.24	1,043.24	25,408.06	1,208.70	340.46
....	1,500.00	10,000.00	5,000.00	2,812.91	8,000.00	7,000.00
201.68	3,677.82	3,311.80	744.21	12,248.16	2,619.05	1,506.21
....	246.15	367.60	17.57	10,118.81	....	512.92
....	....	....	....	....	....	....
4,752.31	115,084.26	49,449.03	16,141.91	205,824.60	64,495.87	30,936.66
....	28.33	....	....	....	....	112.49
14,818.47	287,538.78	203,721.48	40,278.17	856,174.83	153,648.20	76,829.88
428.82	....	....	....	....	....	....
15,247.29	287,538.78	203,721.48	40,278.17	856,174.83	153,648.20	76,829.88
....	16,363.88	38,445.97	....	196,274.66	17,365.73	675.73
165.39	647.39	....	....	39,925.61	....	1,668.74
....	....	....	....	....	....	....
....	6,594.57	1,665.00	137.36	16,822.80	730.89	49.25
165.39	23,605.84	40,110.97	137.36	253,023.07	18,096.62	2,393.72
4,752.31	115,084.26	49,449.03	16,141.91	205,824.60	64,495.87	30,936.66
4,129.59	56,347.65	35,299.59	7,885.38	85,118.72	22,519.93	14,235.07
....	164.38	....	34.22	5,828.72	....	....
8,881.90	171,596.29	84,748.62	24,061.51	296,772.04	87,015.80	45,171.73
6,200.00	36,636.12	37,054.03	8,407.49	160,793.12	19,802.77	12,324.27
....	....	....	....	....	....	....
....	55,700.53	41,807.86	7,671.81	145,586.60	28,733.01	16,940.16
6,200.00	92,336.65	78,861.89	16,079.30	306,379.72	48,535.78	29,264.43
15,247.29	287,538.78	203,721.48	40,278.17	856,174.83	153,648.20	76,829.88
1.6	13.1	26.0	0.6	38.9	20.3	5.2

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Embro	Erieau	Erie Beach	Essex
Population	449	238	26	1,798
Assets	$ c.	$ c.	$ c.	$ c.
Lands and buildings	....	....	....	....
Substation equipment	....	....	....	....
Distribution system—overhead	10,202.41	10,634.09	2,351.91	38,733.77
Distribution system—underground	....	....	....	442.55
Line transformers	3,039.64	1,861.67	902.85	17,161.02
Meters	2,183.75	2,872.97	766.30	11,699.59
Street light equipment, regular	535.73	341.06	....	1,554.70
Street light equipment, ornamental	....	....	....	7,205.06
Miscellaneous construction expense	185.68	379.90	375.03	1,574.30
Steam or hydraulic plant	....	....	....	....
Old plant	429.25	....	....	....
Total plant	16,576.46	16,089.69	4,396.09	78,370.99
Bank and cash balance	635.53	690.17	597.12	4,999.64
Securities and investments	3,000.00	....	....	10,000.00
Accounts receivable	873.07	841.41	352.07	2,261.93
Inventories	....	....	....	....
Sinking fund on local debentures	....	....	....	....
Equity in H-E.P.C. systems	9,300.21	4,951.12	1,224.86	24,472.12
Other assets	....	....	....	657.43
Total assets	30,385.27	22,572.39	6,570.14	120,762.11
Deficit	....	....	....	....
Total	30,385.27	22,572.39	6,570.14	120,762.11
Liabilities				
Debenture balance	1,198.90	3,033.28	1,957.15	16,819.72
Accounts payable	74.69	446.38	38.32	....
Bank overdraft	....	....	....	....
Other liabilities	....	40.00	....	7,862.49
Total liabilities	1,273.59	3,519.66	1,995.47	24,682.21
Reserves				
For equity in H-E.P.C. systems	9,300.21	4,951.12	1,224.86	24,472.12
For depreciation	6,106.99	3,082.32	513.31	17,628.80
Other reserves	50.00	74.16	....	384.13
Total reserves	15,457.20	8,107.60	1,738.17	42,485.05
Surplus				
Debentures paid	6,301.10	3,849.85	1,342.85	5,680.28
Local sinking fund	....	....	....	....
Operating surplus	7,353.38	7,095.28	1,493.65	47,914.57
Total surplus	13,654.48	10,945.13	2,836.50	53,594.85
Total liabilities, reserves and surplus	30,385.27	22,572.39	6,570.14	120,762.11
Percentage of net debt to total assets	6.0	20.0	37.3	19.6

"A"—Continued

Hydro Municipalities as at December 31, 1937

Etobicoke Twp.	Exeter 1,629	Fergus 2,785	Fonthill 803	Forest 1,586	Forest Hill 9,147	Galt 14,119	George-town 2,189
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
27,194.47	3,335.73	....	....	6,447.40	8,241.28	201,705.30	673.81
....	....	....	....	....	42,617.79	113,578.70	....
291,630.10	30,077.22	34,877.65	11,420.95	20,699.42	44,559.14	249,331.72	33,119.63
....	....	....	....	....	....	....	....
80,699.02	11,484.35	19,842.39	5,066.12	10,085.26	4,323.87	117,780.57	19,754.40
61,790.18	8,371.71	13,321.81	4,547.27	10,115.44	451.26	71,571.67	14,431.57
12,567.50	4,693.43	2,588.89	1,074.40	2,399.99	1,329.51	71,871.85	4,328.70
2,689.44	....	1,288.29	....	....	....	....	....
22,788.41	3,130.69	1,015.70	240.65	924.70	5,580.99	27,159.74	3,256.87
....	....	....	....	....	....	....	....
....	....	2,546.59	3,500.00	11,042.87	....	....	2,209.80
499,359.12	61,093.13	75,481.32	25,849.39	61,715.08	107,103.84	852,999.55	77,774.78
....	2,909.72	854.74	1,164.73	1,303.79	140,637.47	19,860.01	3,369.53
....	13,000.00	....	....	15,500.00	....	43,000.00	6,926.01
9,980.23	2,545.82	6,655.83	649.15	4,261.14	....	40,189.33	4,939.13
6,614.76	1,450.82	86.99	....	2,087.89	....	20,581.85	....
....	....	....	....	....	....	78,994.30	....
158,208.69	33,835.17	47,494.52	4,804.30	25,837.27	....	443,034.26	82,297.20
....	....	922.03	....	....	4,837.89	186.13	....
674,162.80	114,834.66	131,495.43	32,467.57	110,705.17	252,579.20	1,498,845.43	175,306.65
....	....	....	....	....	....	....	....
674,162.80	114,834.66	131,495.43	32,467.57	110,705.17	252,579.20	1,498,845.43	175,306.65
132,313.53	3,864.43	13,691.63	12,237.12	6,874.38	250,000.00	189,974.71	7,144.74
21,990.76	291.80	3,562.28	446.05	19.42	2,579.20	20,512.37	19.64
7,427.97	....	....	....	....	....	....	....
9,075.03	261.50	1,313.29	284.30	60.06	....	1,450.93	777.56
170,807.29	4,417.73	18,567.20	12,967.47	6,953.86	252,579.20	211,938.01	7,941.94
158,208.69	33,835.17	47,494.52	4,804.30	25,837.27	....	443,034.26	82,297.20
96,565.44	14,325.08	11,734.90	2,399.60	16,501.75	....	284,647.33	21,765.94
496.77	540.71	350.00	....	43.20	....	30,083.83	....
255,270.90	48,700.96	59,579.42	7,203.90	42,382.22	....	757,765.42	104,063.14
133,381.87	16,135.62	28,308.37	10,262.88	27,525.62	....	328,027.32	12,855.26
....	....	....	....	....	....	78,994.30	....
114,702.74	45,580.35	25,040.44	2,033.32	33,843.47	....	122,120.38	50,446.31
248,084.61	61,715.97	53,348.81	12,296.20	61,369.09	....	529,142.00	63,301.57
674,162.80	114,834.66	131,495.43	32,467.57	110,705.17	252,579.20	1,498,845.43	175,306.65
32.7	5.4	20.9	46.8	8.2	100.0	13.6	8.6

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Glencoe	Goderich	Granton	Guelph	Hagersville
Population	778	4,336	P.V.	21,455	1,345
Assets	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	3,230.35	13,569.89	....	13,380.18	....
Substation equipment	....	34,402.48	....	173,784.49	864.37
Distribution system—overhead	21,053.31	68,976.23	4,341.93	233,261.98	20,681.20
Distribution system—underground	....	....	....	....	....
Line transformers	6,555.23	19,929.36	1,696.30	97,688.38	10,555.11
Meters	4,299.65	19,879.55	1,529.92	100,509.46	9,047.00
Street light equipment, regular	1,735.09	9,194.89	180.78	43,136.96	1,040.67
Street light equipment, ornamental	....	....	....	....	....
Miscellaneous construction expense	3,565.97	6,892.04	113.08	29,967.60	635.46
Steam or hydraulic plant	....	....	....	....	....
Old plant	....	14,622.15	....	....	....
Total plant	40,439.60	187,466.59	7,862.01	691,729.05	42,823.81
Bank and cash balance	4,771.30	20,380.21	3,484.08	9,859.58	5,385.74
Securities and investments	....	8,500.00	2,000.00	....	16,000.00
Accounts receivable	3,012.18	4,128.70	542.70	27,771.27	1,205.51
Inventories	336.60	1,114.12	....	20,043.18	....
Sinking fund on local debentures	....	....	....	4,512.04	....
Equity in H-E.P.C. systems	16,368.81	100,629.49	6,717.80	538,267.86	64,225.45
Other assets	....	....	....	288.75	....
Total assets	64,928.49	322,219.11	20,606.59	1,292,471.73	129,640.51
Deficit	....	....	....	....	....
Total	64,928.49	322,219.11	20,606.59	1,292,471.73	129,640.51
Liabilities					
Debenture balance	4,063.69	39,931.62	1,579.29	5,000.00	1,981.08
Accounts payable	76.16	2,229.26	140.68	20,763.27	....
Bank overdraft	....	....	....	....	....
Other liabilities	56.36	2,173.79	....	2,801.08	290.00
Total liabilities	4,196.21	44,334.67	1,719.97	28,564.35	2,271.08
Reserves					
For equity in H-E.P.C. systems	16,368.81	100,629.49	6,717.80	538,267.86	64,225.45
For depreciation	10,768.56	76,302.83	3,093.61	149,622.56	11,131.75
Other reserves	325.80	872.77	60.00	2,290.42	....
Total reserves	27,463.17	177,805.09	9,871.41	690,180.84	75,357.20
Surplus					
Debentures paid	16,049.19	56,156.43	1,920.71	139,999.99	6,018.92
Local sinking fund	....	....	....	4,512.04	....
Operating surplus	17,219.92	43,922.92	7,094.50	429,214.51	45,993.31
Total surplus	33,269.11	100,079.35	9,015.21	573,726.54	52,012.23
Total liabilities, reserves and surplus	64,928.49	322,219.11	20,606.59	1,292,471.73	129,640.51
Percentage of net debt to total assets	8.6	20.1	12.4	3.2	3.4

"A"—Continued

Hydro Municipalities as at December 31, 1937

Hamilton 154,020	Harriston 1,273	Harrow 918	Hensall 719	Hespeler 2,861	Highgate 327	Humberstone 2,563
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
945,746.70	395.25	2,047.78	....	4,573.03	....	....
1,952,840.22	600.00	....	....	39,910.26	....	....
1,207,657.82	22,267.49	17,612.33	12,456.99	30,662.60	6,397.77	26,242.17
844,868.10	....	....	....	....	....	....
867,040.49	8,170.04	10,078.81	4,428.42	20,749.50	2,109.25	9,228.53
699,555.06	7,884.73	6,435.14	3,544.95	12,709.26	1,781.31	8,574.77
280,055.98	1,356.00	852.85	612.83	7,285.90	453.91	884.80
....	....	....	....	....	....	....
237,563.90	904.38	1,016.88	632.06	967.39	491.60	3,386.64
....	....	....	....	....	....	....
30,145.08	1,001.43	....	400.00	....	....	....
7,065,473.35	42,579.32	38,043.79	22,075.25	116,857.94	11,233.84	48,316.91
111,615.19	2,486.65	295.31	1,836.58	12,768.40	1,689.01	9,869.41
....	3,000.00	....	7,000.00	....	3,000.00	....
274,558.45	1,031.32	2,262.26	960.68	3,036.88	346.77	854.67
161,370.58	....	504.54	....	425.95	....	....
429,707.64	....	....	....	....	....	....
3,642,406.53	27,476.64	18,915.01	13,126.36	89,677.02	8,116.61	16,136.67
83,858.13	....	....	200.00	....	....	....
11,768,989.87	76,573.93	60,020.91	45,198.87	222,766.19	24,386.23	75,177.66
....	....	....	....	....	....	....
11,768,989.87	76,573.93	60,020.91	45,198.87	222,766.19	24,386.23	75,177.66
2,297,278.83	7,461.93	3,044.03	5,103.15	26,730.66	....	13,400.00
246,038.73	....	1,182.67	688.05	183.34	27.14	....
....	....	....	....	....	....	....
*1,047,856.82	....	399.26	33.00	5.00	60.00	1,528.88
3,591,174.38	7,461.93	4,625.96	5,824.20	26,919.00	87.14	14,928.88
3,642,406.53	27,476.64	18,915.01	13,126.36	89,677.02	8,116.61	16,136.67
1,120,823.05	9,130.43	5,108.61	8,626.23	17,356.26	4,777.53	5,050.65
388,674.22	....	144.19	....	279.73	....	....
5,151,903.80	36,607.07	24,167.81	21,752.59	107,313.01	12,894.14	21,187.32
1,921,746.29	18,356.10	8,955.97	6,896.85	50,839.85	5,000.00	18,600.00
429,707.64	....	....	....	....	....	....
674,457.76	14,148.83	22,271.17	10,725.23	37,694.33	6,404.95	20,461.46
3,025,911.69	32,504.93	31,227.14	17,622.08	88,534.18	11,404.95	39,061.46
11,768,989.87	76,573.93	60,020.91	45,198.87	222,766.19	24,386.23	75,177.66
41.7	15.2	11.3	18.2	20.2	0.5	25.3

*Includes a balance of $1,000,000.00 on purchase agreement.

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Ingersoll	Jarvis	Kingsville	Kitchener	Lambeth
Population	5,139	504	2,282	32,650	P.V.
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	15,064.45	....	7,774.09	231,938.06	....
Substation equipment	33,283.83	....	....	252,794.03	....
Distribution system—overhead	55,958.42	9,756.66	32,478.22	345,348.17	7,326.75
Distribution system—underground	....	....	....	44,245.42	....
Line transformers	29,320.37	3,151.56	13,653.07	185,828.53	1,883.12
Meters	25,538.87	2,701.84	14,225.77	199,623.03	2,490.61
Street light equipment, regular	4,685.02	929.54	1,439.82	69,231.22	1,052.75
Street light equipment, ornamental	4,597.59	....	19,200.00	115,682.08	....
Miscellaneous construction expense	10,494.80	663.55	1,137.47	21,031.78	354.62
Steam or hydraulic plant	....	....	....	....	....
Old plant	19,098.54	....	....	52,363.91	....
Total plant	198,041.89	17,203.15	89,908.44	1,518,086.23	13,107.85
Bank and cash balance	3,089.81	1,458.68	6,013.45	30,055.42	1,176.46
Securities and investments	11,716.57	4,000.00	13,000.00	15,000.00	2,000.00
Accounts receivable	3,701.77	657.70	2,591.72	54,110.17	454.80
Inventories	1,485.86	....	225.82	13,297.99	....
Sinking fund on local debentures	80,949.85	....	....	....	....
Equity in H-E.P.C. systems	150,490.20	12,006.47	32,099.27	1,039,730.09	7,839.02
Other assets	....	....	2,427.53	863.98	....
Total assets	449,475.95	35,326.00	146,266.23	2,671,143.88	24,578.13
Deficit	....	....	....	....	....
Total	449,475.95	35,326.00	146,266.23	2,671,143.88	24,578.13
LIABILITIES					
Debenture balance	79,800.00	4,389.26	25,498.93	123,761.80	....
Accounts payable	946.90	....	50.82	104,227.51	736.15
Bank overdraft	....	....	....	....	....
Other liabilities	6,195.32	40.00	21,627.53	116,669.18	95.00
Total liabilities	86,942.22	4,429.26	47,177.28	344,658.49	831.15
RESERVES					
For equity in H-E.P.C. systems	150,490.20	12,006.47	32,099.27	1,039,730.09	7,839.02
For depreciation	26,031.77	3,802.99	21,840.89	338,220.30	4,095.07
Other reserves	926.78	....	298.75	28,969.32	45.24
Total reserves	177,448.75	15,809.46	54,238.91	1,406,919.71	11,979.33
SURPLUS					
Debentures paid	....	6,110.74	8,001.07	388,388.20	4,000.00
Local sinking fund	80,949.85	....	....	....	....
Operating surplus	104,135.13	8,976.54	36,848.97	531,177.48	7,767.65
Total surplus	185,084.98	15,087.28	44,850.04	919,565.68	11,767.65
Total liabilities, reserves and surplus	449,475.95	35,326.00	146,266.23	2,671,143.88	24,578.13
Percentage of net debt to total assets	0.6	19.0	29.5	15.1	5.0

"A"—Continued

Hydro Municipalities as at December 31, 1937

La Salle 782	Leamington 5,340	Listowel 2,819	London 73,091	London Twp.	Long Branch 4,099	Lucan 613
1,383.58	16,990.75	1,459.49	454,908.69	...	...	...
...	7,085.62	...	967,160.27	...	...	...
20,174.04	51,588.89	41,540.17	809,321.10	19,320.12	53,894.44	10,867.25
...	11,991.15	4,236.96	321,912.64	...	...	...
6,745.26	23,468.09	20,338.53	340,709.08	6,789.70	13,454.85	4,610.64
4,188.88	24,142.00	16,840.39	357,610.26	4,999.07	17,965.96	3,558.53
946.49	1,380.13	2,483.53	71,664.13	1,452.50	4,514.77	430.15
...	15,178.49	1,348.66	92,286.12	...	...	...
1,850.67	2,377.35	2,075.95	168,287.49	1,502.84	2,130.96	555.22
...	...	...	...	...	...	...
...	...	4,745.30	...	1,733.80	...	2,860.45
35,288.92	154,202.47	95,068.98	3,583,859.78	35,798.03	91,960.98	22,882.24
6,712.73	26,888.33	2,227.15	44,290.34	1,548.74	4,576.89	1,738.94
...	23,813.81	7,000.00	...	2,000.00	...	8,000.00
1,231.20	4,850.50	4,184.76	239,455.31	1,991.33	1,232.75	390.07
...	79.84	77.76	103,026.00	...	...	...
...	...	...	424,589.52	...	...	...
10,991.47	64,664.59	61,491.53	1,877,748.37	14,788.59	16,933.05	15,253.19
555.03	...	...	2,284.86	...	...	...
54,779.35	274,499.54	170,050.18	6,275,254.18	56,126.69	114,703.67	48,264.44
...	...	...	...	...	...	...
54,779.35	274,499.54	170,050.18	6,275,254.18	56,126.69	114,703.67	48,264.44
8,391.67	23,361.48	2,097.40	669,823.63	5,611.29	16,613.23	3,153.22
1,704.48	125.17	2,719.16	86,971.70	2,181.84	1,138.06	0.67
...	...	...	...	...	...	...
555.03	18,117.89	1,621.89	94,285.49	338.71	2,693.66	282.22
10,651.18	41,604.54	6,438.45	851,080.82	8,131.84	20,444.95	3,436.11
10,991.47	64,664.59	61,491.53	1,877,748.37	14,788.59	16,933.05	15,253.19
8,539.29	32,437.54	37,144.84	1,095,762.73	7,097.97	19,595.41	9,683.72
271.27	173.33	...	109,662.35	36.87	154.69	...
19,802.03	97,275.46	98,636.37	3,083,173.45	21,923.43	36,683.15	24,936.91
7,108.33	24,638.52	41,092.49	912,076.37	13,388.71	23,691.37	8,060.40
...	...	...	424,589.52	...	...	...
17,217.81	110,981.02	23,882.87	1,004,334.02	12,682.71	33,884.20	11,831.02
24,326.14	135,619.54	64,975.36	2,340,999.91	26,071.42	57,575.57	19,891.42
54,779.35	274,499.54	170,050.18	6,275,254.18	56,126.69	114,703.67	48,264.44
24.3	13.6	4.7	8.6	20.0	20.9	10.4

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Lynden	Markham	Merlin	Merritton	Milton
Population	P.V.	1,112	P.V.	2,543	1,785
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	241.18			6,575.31	
Substation equipment				67,314.45	16,418.16
Distribution system—overhead	4,809.73	16,216.61	8,453.21	37,805.23	23,412.66
Distribution system—underground					
Line transformers	2,166.63	8,436.15	3,801.48	9,254.15	15,184.64
Meters	1,912.74	5,967.77	2,224.42	11,767.10	14,214.47
Street light equipment, regular	354.06	750.76	560.17	4,676.11	4,983.63
Street light equipment, ornamental					
Miscellaneous construction expense	283.57	1,610.43	455.36	3,222.63	4,395.72
Steam or hydraulic plant					
Old plant			241.85		3,092.54
Total plant	9,767.91	32,981.72	15,736.49	140,614.98	81,701.82
Bank and cash balance	2,108.77	2,649.11	2,031.85	2,754.45	2,419.66
Securities and investments		7,000.00	6,000.00		4,000.00
Accounts receivable	482.19	740.05	654.97	2,031.67	6,688.99
Inventories				25.50	4,681.65
Sinking fund on local debentures					
Equity in H-E.P.C. systems	11,211.44	14,661.15	9,863.34	103,072.69	83,803.26
Other assets					
Total assets	23,570.31	58,032.03	34,286.65	248,499.29	183,295.38
Deficit					
Total	23,570.31	58,032.03	34,286.65	248,499.29	183,295.38
LIABILITIES					
Debenture balance	1,959.48		4,633.05	13,175.47	5,105.14
Accounts payable	23.85		541.10	15,000.00	903.41
Bank overdraft					
Other liabilities		204.28	80.00		308.58
Total liabilities	1,983.33	204.28	5,254.15	28,175.47	6,317.13
RESERVES					
For equity in H-E.P.C. systems	11,211.44	14,661.15	9,863.34	103,072.69	83,803.26
For depreciation	3,306.60	6,858.75	3,574.35	14,437.00	19,497.16
Other reserves		73.24	23.40		1,386.93
Total reserves	14,518.04	21,593.14	13,461.09	117,509.69	104,687.35
SURPLUS					
Debentures paid	2,535.52	11,373.63	8,731.16	19,010.74	27,941.27
Local sinking fund					
Operating surplus	4,533.42	24,860.98	6,840.25	83,803.39	44,349.63
Total surplus	7,068.94	36,234.61	15,571.41	102,814.13	72,290.90
Total liabilities, reserves and surplus	23,570.31	58,032.03	34,286.65	248,499.29	183,295.38
Percentage of net debt to total assets	16.0	0.5	21.5	19.4	6.3

"A"—Continued

Hydro Municipalities as at December 31, 1937

Milverton 987	Mimico 6,876	Mitchell 1,577	Moorefield P.V.	Mount Brydges P.V.	Newbury 276	New Hamburg 1,464
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
237.20	17,077.41	23,058.94	....	....	....	2,513.19
....	38,461.02	19,487.83	....	....	....	1,217.05
12,182.71	76,541.97	30,670.25	3,086.96	7,235.98	6,489.00	23,811.33
....	....	....	....	....	....	....
8,101.30	34,509.60	9,205.66	1,211.63	2,305.43	1,797.86	7,173.44
5,297.89	29,380.88	12,285.53	1,280.31	2,628.60	1,295.15	9,080.92
765.09	8,297.01	7,736.24	295.88	710.02	866.47	2,181.40
....	....	....	....	....	....	....
760.31	7,118.75	1,365.79	348.35	260.25	502.54	1,676.21
....	....	....	....	....	....	....
....	....	1,500.00	....	....	348.22	5,242.56
27,344.50	211,386.64	105,310.24	6,223.13	13,140.28	11,299.24	52,896.10
2,399.97	20,868.80	4,152.11	2,051.62	3,624.92	1,773.17	1,434.42
2,000.00	....	1,000.00	....	3,000.00	....	5,000.00
972.97	4,398.98	8,654.77	224.72	977.16	1,117.82	2,067.04
....	....	4,018.37	....	....	....	658.37
....	....	....	....	....	....	....
36,233.34	112,767.41	35,800.76	5,148.56	6,082.29	3,734.18	40,348.95
....	....	....	....	....	....	....
68,950.78	349,421.83	158,936.25	13,648.03	26,824.65	17,924.41	102,404.88
....	....	....	....	....	....	....
68,950.78	349,421.83	158,936.25	13,648.03	26,824.65	17,924.41	102,404.88
....	59,365.76	....	....	1,650.14	2,300.00	3,188.79
942.97	3,033.10	1,155.46	....	11.69	3.15	....
....	....	....	....	....	....	....
....	5,857.82	144.00	....	152.62	30.00	271.50
942.97	68,256.68	1,299.46	....	1,814.45	2,333.15	3,460.29
36,233.34	112,767.41	35,800.76	5,148.56	6,082.29	3,734.18	40,348.95
6,829.03	56,049.75	42,756.68	2,710.93	3,409.30	3,470.68	14,657.65
....	1,382.70	1,337.25	....	100.00	....	34.51
43,062.37	170,199.86	79,894.69	7,859.49	9,591.59	7,204.86	55,041.11
9,500.00	67,634.24	22,295.22	4,500.00	2,569.86	7,454.39	14,540.29
....	....	....	....	....	....	....
15,445.44	43,331.05	55,446.88	1,288.54	12,848.75	932.01	29,363.19
24,945.44	110,965.29	77,742.10	5,788.54	15,418.61	8,386.40	43,903.48
68,950.78	349,421.83	158,936.25	13,648.03	26,824.65	17,924.41	102,404.88
2.9	28.8	1.1	0.0	8.7	16.4	5.5

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality Population	New Toronto 6,848	Niagara Falls 18,747	Niagara-on-the-Lake 1,563	North York Twp.
ASSETS	$ c.	$ c.	$ c.	$ c.
Lands and buildings	44,097.67	132,324.59	2,307.35	28,392.13
Substation equipment	....	228,586.00	16,048.36	....
Distribution system—overhead	85,970.46	193,495.29	31,884.74	375,929.89
Distribution system—underground	8,605.69	....	....	....
Line transformers	34,211.55	165,000.87	8,746.40	103,665.32
Meters	34,977.72	109,068.31	8,894.67	54,543.24
Street light equipment, regular	12,172.38	119,864.91	1,352.39	156.00
Street light equipment, ornamental	....	....	....	13,491.21
Miscellaneous construction expense	7,507.85	10,153.89	2,233.21	29,102.94
Steam or hydraulic plant	....	....	....	....
Old plant	....	19,589.37	....	....
Total plant	227,543.32	978,083.23	71,467.12	605,280.73
Bank and cash balance	8,618.57	106,333.62	5,583.72	24,622.54
Securities and investments	....	....	....	....
Accounts receivable	13,772.34	12,538.56	4,918.42	8,912.34
Inventories	....	17,675.12	2,304.44	254.33
Sinking fund on local debentures	....	....	....	....
Equity in H-E.P.C. systems	349,833.96	466,411.03	24,800.90	99,786.84
Other assets	....	....	....	....
Total assets	599,768.19	1,581,041.56	109,074.60	738,856.78
Deficit	....	....	....	....
Total	599,768.19	1,581,041.56	109,074.60	738,856.78
LIABILITIES				
Debenture balance	2,641.45	239,000.79	16,996.00	299,043.38
Accounts payable	1,693.50	6,277.43	36.24	61,508.89
Bank overdraft	....	....	....	....
Other liabilities	6,498.90	15,875.97	210.00	22,065.87
Total liabilities	10,833.85	261,154.19	17,242.24	382,618.14
RESERVES				
For equity in H-E.P.C. systems	349,833.96	466,411.03	24,800.90	99,786.84
For depreciation	53,741.74	213,190.18	14,599.94	90,983.87
Other reserves	1,356.65	14,481.90	1,281.17	....
Total reserves	404,932.35	694,083.11	40,682.01	190,770.71
SURPLUS				
Debentures paid	5,358.55	451,242.21	19,505.42	143,978.49
Local sinking fund	....	....	....	....
Operating surplus	178,643.44	174,562.05	31,644.93	21,489.44
Total surplus	184,001.99	625,804.26	51,150.35	165,467.93
Total liabilities, reserves and surplus	599,768.19	1,581,041.56	109,074.60	738,856.78
Percentage of net debt to total assets	4.3	23.4	20.5	59.0

"A"—Continued

Hydro Municipalities as at December 31, 1937

Norwich 1,174	Oil Springs 472	Otterville P.V.	Palmerston 1,410	Paris 4,315	Parkhill 997	Petrolia 2,720	Plattsville P.V.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
4,638.76	1,524.68	....		8,487.50	....	900.00	....
....	....	....	1,346.28	28,126.55	....	5,956.75	....
11,232.39	13,182.37	7,525.41	31,869.37	55,115.46	16,039.71	45,218.56	4,347.54
....	....	....	....	....	....	....	....
6,847.08	5,234.39	3,804.91	9,604.81	22,381.47	4,359.83	29,035.16	1,890.66
7,335.98	3,378.78	2,538.16	7,505.18	20,039.73	4,153.82	15,517.85	1,994.88
4,685.64	308.24	1,525.03	6,679.87	14,059.22	995.06	6,324.44	147.15
....	....	....	....	....	....	....	....
2,185.71	2,166.86	142.00	1,976.13	2,851.75	1,298.29	5,855.42	535.92
....	....	....	....	....	....	....	....
3,509.82	....	....	4,018.71	....	....	3,389.94	....
40,435.38	25,795.32	15,535.51	63,000.35	151,061.68	26,846.71	112,198.12	8,916.15
1,515.38	5,164.62	3,846.17	....	7,160.18	1,568.57	11,075.51	2,261.33
5,000.00	1,640.26	....	....	28,500.00	3,000.00	8,400.00	2,000.00
3,768.51	917.91	1,257.65	299.81	1,020.59	1,309.88	7,432.93	575.84
2,275.40	82.82	....	3,205.55	....	....	524.69	....
....	....	....	....	....	....	....	....
29,951.10	20,485.35	6,924.22	34,623.98	91,343.28	15,089.49	82,554.07	7,263.74
....	24.00	....	....	....	....	....	....
82,945.77	54,110.28	27,563.55	101,129.69	279,085.73	47,814.65	222,185.32	21,017.06
....	....	....	....	....	....	....	....
82,945.77	54,110.28	27,563.55	101,129.69	279,085.73	47,814.65	222,185.32	21,017.06
3,466.47	....	....	1,885.80	6,270.34	2,116.00	15,254.82	1,971.55
268.97	30.58	....	4,494.27	166.67	....	2,957.58	91.36
....	....	....	686.19	....	....	....	....
250.00	24.00	46.25	397.50	....	105.00	907.50	....
3,985.44	54.58	46.25	7,463.76	6,437.01	2,221.00	19,119.90	2,062.91
29,951.10	20,485.35	6,924.22	34,623.98	91,343.28	15,089.49	82,554.07	7,263.74
7,545.49	8,672.24	5,121.12	6,309.41	72,705.78	7,892.72	33,977.33	3,718.98
840.52	90.03	....	405.89	175.00	....	978.17	....
38,337.11	29,247.62	12,045.34	41,339.28	164,224.06	22,982.21	117,509.57	10,982.72
10,289.53	16,721.31	4,500.00	25,114.20	85,729.66	12,514.02	34,745.18	3,265.45
....	....	....	....	....	....	....	....
30,333.69	8,086.77	10.971.96	27,212.45	22,695.00	10,097.42	50,810.67	4,705.98
40,623.22	24,808.08	15,471.96	52,326.65	108,424.66	22,611.44	85,555.85	7,971.43
82,945.77	54,110.28	27,563.55	101,129.69	279,085.73	47,814.65	222,185.32	21,017.06
7.5	0.2	0.2	11.2	3.4	6.8	13.7	15.0

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality Population	Point Edward 1,252	Port Colborne 6,196	Port Credit 1,755	Port Dalhousie 1,459	Port Dover 1,665
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings					
Substation equipment		22,561.01	675.00		248.75
Distribution system—overhead	21,445.99	92,345.57	25,841.57	19,283.05	32,667.49
Distribution system—underground					
Line transformers	6,746.18	29,265.60	11,221.58	10,621.12	11,864.38
Meters	5,117.40	24,238.65	9,824.04	9,819.25	8,468.53
Street light equipment, regular	3,091.41	4,549.26	4,922.71	1,041.19	2,673.13
Street light equipment, ornamental		16,611.59			
Miscellaneous construction expense	503.14	6,281.60	3,008.65	3,644.89	3,096.44
Steam or hydraulic plant					
Old plant		9,929.60		6,018.38	
Total plant	36,904.12	205,782.88	55,493.55	50,427.88	59,018.72
Bank and cash balance	390.95	1,466.33	3,127.62	3,125.27	4,012.52
Securities and investments	13,000.00	1,500.00		3,000.00	
Accounts receivable	3,476.72	20,028.53	4,840.44	3,876.03	3,087.57
Inventories		4,721.39			
Sinking fund on local debentures				3,922.23	
Equity in H-E.P.C. systems	43,960.26	75,319.21	31,109.23	27,092.45	19,886.59
Other assets	295.71				20.00
Total assets	98,027.76	308,818.34	94,570.84	91,443.86	86,025.40
Deficit					
Total	98,027.76	308,818.34	94,570.84	91,443.86	86,025.40
LIABILITIES					
Debenture balance	4,867.16	62,582.90	5,728.38	6,836.31	5,176.03
Accounts payable		312.93	3,355.22	1,421.06	1,830.87
Bank overdraft					
Other liabilities	295.71	20,693.53	585.00	128.00	653.00
Total liabilities	5,162.87	83,589.36	9,668.60	8,385.37	7,659.90
RESERVES					
For equity in H-E.P.C. systems	43,960.26	75,319.21	31,109.23	27,092.45	19,886.59
For depreciation	12,645.33	42,935.93	17,460.43	7,421.31	11,361.62
Other reserves	133.05	3,209.64	337.23	926.31	
Total reserves	56,738.64	121,464.78	48,906.89	35,440.07	31,248.21
SURPLUS					
Debentures paid	12,132.84	83,417.10	8,771.62	15,663.69	23,823.97
Local sinking fund				3,922.23	
Operating surplus	23,993.41	20,347.10	27,223.73	28,032.50	23,293.32
Total surplus	36,126.25	103,764.20	35,995.35	47,618.42	47,117.29
Total liabilities, reserves and surplus	98,027.76	308,818.34	94,570.84	91,443.86	86,025.40
Percentage of net debt to total assets	9.5	35.8	15.2	7.4	11.6

"A"—Continued

Hydro Municipalities as at December 31, 1937

Port Rowan 666	Port Stanley 741	Preston 6,294	Princeton P.V.	Queenston P.V.	Richmond Hill 1,268	Ridgetown 1,983
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
...	...	...	...	...	...	...
...	1,574.60	55,740.10	...	...	600.00	1,024.24
9,404.56	22,218.55	90,200.85	4,314.69	8,347.06	10,715.78	22,783.38
...	...	...	...	...	...	...
1,667.07	12,670.02	49,740.08	2,473.48	2,772.26	9,040.60	9,935.62
2,122.45	10,729.46	39,332.55	1,271.35	1,568.03	5,637.32	9,706.09
890.49	2,036.64	5,442.53	207.93	422.43	1,334.77	3,774.13
...	...	...	...	...	...	1,431.73
693.53	7,362.08	10,057.74	64.35	2,322.94	541.05	1,892.74
...	...	...	...	...	...	...
...	577.51	32,126.75	...	...	...	5,088.46
14,778.10	57,168.86	282,640.60	8,331.80	15,432.72	27,869.52	55,636.39
2,073.21	2,200.10	37,762.75	5,612.72	781.48	2,496.36	4,327.52
...	8,000.00	...	...	...	...	11,000.00
1,279.09	1,904.30	7,581.84	1,009.78	200.94	1,388.89	2,033.25
17.79	...	4,066.84	...	...	288.83	371.01
...	...	...	...	...	...	...
5,276.99	32,146.35	212,525.29	7,213.76	5,452.46	14,466.52	33,728.27
...	...	...	...	...	...	...
23,425.18	101,419.61	544,577.32	22,168.06	21,867.60	46,510.12	107,096.44
...	...	...	...	...	...	...
23,425.18	101,419.61	544,577.32	22,168.06	21,867.60	46,510.12	107,096.44
7,058.55	3,688.87	32,894.80	1,336.36	3,483.96	2,117.31	4,737.23
8.20	...	10,482.55	...	...	80.80	1,062.94
...	...	...	...	...	...	...
120.00	105.01	685.34	...	5.00	344.92	2,028.91
7,186.75	3,793.88	44,062.69	1,336.36	3,488.96	2,543.03	7,829.08
5,276.99	32,146.35	212,525.29	7,213.76	5,452.46	14,466.52	33,728.27
2,964.97	13,277.86	121,369.65	3,034.44	3,880.75	2,624.40	15,387.23
...	75.23	599.48	...	...	...	275.00
8,241.96	45,499.44	334,494.42	10,248.20	9,333.21	17,090.92	49,390.50
3,941.45	15,261.13	119,905.20	2,213.64	6,016.04	10,082.69	14,718.76
...	...	...	...	...	...	...
4,055.02	36,865.16	46,115.01	8,369.86	3,029.39	16,793.48	35,158.10
7,996.47	52,126.29	166,020.21	10,583.50	9,045.43	26,876.17	49,876.86
23,425.18	101,419.61	544,577.32	22,168.06	21,867.60	46,510.12	107,096.44
39.5	5.5	13.3	8.9	21.3	7.9	8.9

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Riverside	Rockwood	Rodney	St. Catharines	St. Clair Beach
Population	5,017	P.V.	724	26,834	100
Assets	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	2,528.73	79.00		52,499.01	
Substation equipment				116,094.51	
Distribution system—overhead	91,840.85	7,888.67	11,087.71	227,120.89	8,087.48
Distribution system—underground					
Line transformers	32,246.00	2,662.83	2,890.98	151,818.02	2,880.61
Meters	23,358.02	3,113.63	3,663.07	96,532.72	1,552.72
Street light equipment, regular		694.18	692.92	20,135.21	
Street light equipment, ornamental	17,030.71			29,486.71	
Miscellaneous construction expense	6,748.92	484.34	728.06	26,401.20	298.24
Steam or hydraulic plant					
Old plant			700.00	17,507.89	
Total plant	173,753.23	14,922.65	19,762.74	737,596.16	12,819.05
Bank and cash balance	654.26	1,381.30	3,418.03	51,601.78	1,238.25
Securities and investments			2,000.00	20,000.00	
Accounts receivable	17,316.30	414.88	432.59	45,493.97	641.12
Inventories	96.72	120.40		11,747.87	
Sinking fund on local debentures				81,099.91	
Equity in H-E.P.C. systems	65,359.06	9,100.35	10,499.11	445,725.45	5,321.02
Other assets	443.66			406.86	
Total assets	257,623.23	25,939.58	36,112.47	1,393,672.00	20,019.44
Deficit					
Total	257,623.23	25,939.58	36,112.47	1,393,672.00	20,019.44
Liabilities					
Debenture balance	36,450.65	1,985.73		163,250.00	2,078.26
Accounts payable	2,649.99	1.60	55.05	31,132.90	165.52
Bank overdraft					
Other liabilities	19,423.39	56.00	210.00	29,876.21	66.59
Total liabilities	58,524.03	2,043.33	265.05	224,259.11	2,310.37
Reserves					
For equity in H-E.P.C. systems	65,359.06	9,100.35	10,499.11	445,725.45	5,321.02
For depreciation	37,118.45	5,628.25	2,948.99	185,052.92	3,667.93
Other reserves	4,837.34		46.00	5,967.88	262.67
Total reserves	107,314.85	14,728.60	13,494.10	636,746.25	9,251.62
Surplus					
Debentures paid	46,049.35	2,514.27	8,500.00	138,772.91	4,263.19
Local sinking fund				81,099.91	
Operating surplus	45,735.00	6,653.38	13,853.32	312,793.82	4,194.26
Total surplus	91,784.35	9,167.65	22,353.32	532,666.64	8,457.45
Total liabilities, reserves and surplus	257,623.23	25,939.58	36,112.47	1,393,672.00	20,019.44
Percentage of net debt to total assets	23.6	12.1	1.0	17.1	15.7

"A"—Continued

Hydro Municipalities as at December 31, 1937

St. George P.V.	St. Jacobs P.V.	St. Marys 4,023	St. Thomas 16,088	Sarnia 18,230	Scarboro Twp.	Seaforth 1,717
....	....	3,000.00	78,651.96	112,146.86	17,273.95	1,836.39
....	....	27,077.99	118,758.31	208,408.83	301.95	5,999.16
5,899.85	6,803.82	59,818.82	107,916.76	219,437.62	288,303.13	31,003.26
....	....	....	52,815.87	....	....	....
2,729.42	3,407.40	23,328.77	58,275.31	79,450.51	64,357.19	11,015.60
3,129.49	3,025.70	23,735.39	73,220.08	75,405.33	68,662.28	10,491.78
286.41	368.97	6,219.05	21,669.17	26,154.53	20,147.73	3,716.97
....	....	....	3,693.04	8,271.83	....	....
374.18	602.71	6,968.26	9,657.69	23,696.65	8,587.05	1,025.66
....	....	....	....	....	....	....
....	....	20,696.85	....	55,445.72	....	....
12,419.35	14,208.60	170,845.13	524,658.19	808,417.88	467,633.28	65,088.82
1,872.99	....	4,872.02	1,657.93	12,793.22	155,981.83	4,174.04
....	3,000.00	10,000.00	55,000.00	100,000.00	2,680.00	100.00
847.31	698.40	6,567.64	18,086.19	32,899.04	17,881.29	2,989.17
....	....	1,652.72	11,542.10	21,954.41	....	1,348.15
....	....	1,776.14	....	....	....	....
11,336.69	12,315.05	108,389.51	390,893.08	491,410.68	140,503.65	50,816.21
....	7.91	59.65	1,200.00	5,429.44	....	....
26,476.34	30,229.96	304,162.81	1,003,037.49	1,472,904.67	784,680.05	124,516.39
....	....	....	....	....	....	....
26,476.34	30,229.96	304,162.81	1,003,037.49	1,472,904.67	784,680.05	124,516.39
2,354.45	....	31,266.68	1,762.44	56,576.69	131,560.00	....
12.80	500.87	310.53	4,287.26	....	118,497.69	....
....	127.22	....	....	....	....	....
149.50	....	160.00	14,468.55	13,701.27	31,364.22	158.00
2,516.75	628.09	31,737.21	20,518.25	70,277.96	281,421.91	158.00
11,336.69	12,315.05	108,389.51	390,893.08	491,410.68	140,503.65	50,816.21
3,048.21	3,538.46	60,256.52	145,798.21	177,134.41	101,958.67	23,296.50
....	....	601.82	455.00	2,167.80	3,393.33	583.26
14,384.90	15,853.51	169,247.85	537,146.29	670,712.89	245,855.65	74,695.97
3,645.55	6,000.00	82,980.34	137,181.63	281,423.31	159,008.27	25,000.00
....	....	1,776.14	....	....	....	....
5,929.14	7,748.36	18,421.27	308,191.32	450,490.51	98,394.22	24,662.42
9,574.69	13,748.36	103,177.75	445,372.95	731,913.82	257,402.49	49,662.42
26,476.34	30,229.96	304,162.81	1,003,037.49	1,472,904.67	784,680.05	124,516.39
16.6	3.5	15.4	2.7	6.4	43.7	0.2

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Simcoe	Springfield	Stamford Twp.	Stouffville
Population	5,614	365		1,155
Assets	$ c.	$ c.	$ c.	$ c.
Lands and buildings	9,757.66		7,196.71	
Substation equipment	30,879.97		37,384.60	
Distribution system—overhead	52,848.10	8,141.26	134,170.97	12,893.51
Distribution system—underground	1,412.24			
Line transformers	30,089.63	2,374.19	48,088.64	4,175.67
Meters	28,841.12	2,119.11	34,794.71	4,763.51
Street light equipment, regular	6,616.91	558.91	9,788.00	1,604.52
Street light equipment, ornamental	3,500.00			
Miscellaneous construction expense	5,763.93	685.08	9,485.22	557.78
Steam or hydraulic plant				
Old plant	927.92		13,743.66	
Total plant	170,637.48	13,878.55	294,652.51	23,994.99
Bank and cash balance	28,053.53	1,815.45	7,422.10	3,189.17
Securities and investments	5,000.00	4,500.00		8,000.00
Accounts receivable	4,801.95	752.85	23,610.63	1,220.03
Inventories	3,783.50		6,049.61	
Sinking fund on local debentures				
Equity in H-E.P.C. systems	79,708.11	7,578.08	75,615.78	12,636.48
Other assets			433.60	43.16
Total assets	291,984.57	28,524.93	407,784.23	49,083.83
Deficit				
Total	291,984.57	28,524.93	407,784.23	49,083.83
Liabilities				
Debenture balance	41,511.50	2,838.25	122,771.77	1,553.78
Accounts payable	680.62	101.51	13,147.00	14.94
Bank overdraft				
Other liabilities	3,710.00	37.00	4,884.52	100.00
Total liabilities	45,902.12	2,976.76	140,803.29	1,668.72
Reserves				
For equity in H-E.P.C. systems	79,708.11	7,578.08	75,615.78	12,636.48
For depreciation	22,407.88	3,708.89	45,552.84	3,810.09
Other reserves	5,000.00		3,360.06	
Total reserves	107,115.99	11,286.97	124,528.68	16,446.57
Surplus				
Debentures paid	33,923.40	6,661.75	117,506.40	13,120.12
Local sinking fund				
Operating surplus	105,043.06	7,599.45	24,945.86	17,848.42
Total surplus	138,966.46	14,261.20	142,452.26	30,968.54
Total liabilities, reserves and surplus	291,984.57	28,524.93	407,784.23	49,083.83
Percentage of net debt to total assets	20.3	14.2	42.4	4.6

"A"—Continued

Hydro Municipalities as at December 31, 1937

Stratford 17,555	Strathroy 2,911	Streets-ville 636	Sutton 831	Swansea 5,504	Tavistock 1,034	Tecumseh 2,432	Thames-ford P.V.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
138,889.22	8,856.05	2,038.47	...	...	262.29	1,018.51	...
121,656.74	23,219.34	1,172.04	...	...	...	...	...
154,827.02	50,389.39	8,507.59	20,579.42	56,556.85	13,523.68	35,269.49	7,757.33
8,404.93	...	...	...	...	...	...	...
103,088.62	22,734.26	4,948.80	7,460.31	43,194.30	9,657.35	11,316.12	3,251.85
84,464.30	16,365.95	2,804.92	6,246.85	28,386.50	5,295.95	10,712.82	2,955.32
22,989.11	5,863.19	1,054.40	1,822.11	4,940.99	1,078.48	...	298.97
...	...	...	2,679.70	...	...	4,760.95	...
22,972.68	3,953.76	680.53	...	6,209.56	974.90	2,195.76	522.30
...	...	10,641.55	...	...	...	...	...
31,520.00	12,343.15	...	675.00	...	...	...	...
688,812.62	143,725.09	31,848.30	39,463.39	139,288.20	30,792.65	65,273.65	14,785.77
35,010.23	7,328.14	6,308.71	838.07	4,972.41	2,613.30	4,941.25	109.71
90,000.00	17,000.00	...	...	...	2,299.53	...	8,500.00
28,857.37	9,491.78	750.62	2,895.52	1,552.49	1,656.86	3,549.98	941.23
8,779.53	1,720.26	...	...	...	...	...	...
232,024.42	...	...	...	...	...	...	...
485,791.38	69,715.16	1,103.95	12,172.68	...	35,801.46	20,283.37	13,563.62
...	64.84	...	174.27	8,338.21	...	...	...
1,569,275.55	249,045.27	40,011.58	55,543.93	154,151.31	73,163.80	94,048.25	37,900.33
...	...	...	...	...	...	...	...
1,569,275.55	249,045.27	40,011.58	55,543.93	154,151.31	73,163.80	94,048.25	37,900.33
340,000.00	27,839.44	13,130.07	10,122.65	83,909.78	2,774.30	8,591.87	1,025.58
249.02	...	...	716.21	7,704.85	593.01	8,199.67	49.33
...	...	...	...	...	...	...	...
5,273.91	660.59	148.87	...	240.00	...	5,758.74	70.00
345,522.93	28,500.03	13,278.94	10,838.86	91,854.63	3,367.31	22,550.28	1,144.91
485,791.38	69,715.16	1,103.95	12,172.68	...	35,801.46	20,283.37	13,563.62
283,200.14	34,273.73	3,071.88	7,958.11	38,860.74	10,591.95	13,808.45	5,517.45
5,020.84	558.15	24.92	...	...	...	1,596.47	...
774,012.36	104,547.04	4,200.75	20,130.79	38,860.74	46,393.41	35,688.29	19,081.07
115,800.00	38,392.56	4,415.01	15,877.35	18,403.97	3,225.70	17,408.13	4,332.45
232,024.42	...	...	...	...	...	...	...
101,915.84	77,605.64	18,116.88	8,696.93	5,031.97	20,177.38	18,401.55	13,341.90
449,740.26	115,998.20	22,531.89	24,574.28	23,435.94	23,403.08	35,809.68	17,674.35
1,569,275.55	249,045.27	40,011.58	55,543.93	154,151.31	73,163.80	94,048.25	37,900.33
13.3	15.9	34.1	24.9	59.6	9.0	25.8	4.7

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Thamesville	Thedford	Thorndale	Thorold	Tilbury
Population	788	585	P.V.	4,959	1,992
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	681.69			9,892.59	969.46
Substation equipment					
Distribution system—overhead	12,600.95	9,414.11	3,573.69	34,277.37	16,151.97
Distribution system—underground					
Line transformers	5,158.60	3,392.91	1,595.95	19,206.02	12,761.37
Meters	4,024.51	2,338.26	1,809.51	21,162.12	7,337.97
Street light equipment, regular	1,379.42	885.46	181.19	2,895.84	1,029.37
Street light equipment, ornamental					
Miscellaneous construction expense	580.96	1,565.61	310.45	3,445.90	1,684.50
Steam or hydraulic plant				13,380.93	
Old plant	4,445.68	433.78		3,800.00	3,049.47
Total plant	28,871.81	18,030.13	7,470.79	108,060.77	42,984.11
Bank and cash balance	3,668.23	1,132.85	863.03	6,921.14	4,223.69
Securities and investments	5,000.00	2,500.00		20,000.00	15,000.00
Accounts receivable	1,199.71	779.67	939.12	999.81	2,182.20
Inventories				1,384.27	33.55
Sinking fund on local debentures					
Equity in H-E.P.C. systems	13,872.20	7,430.40	6,960.14	75,996.93	36,799.69
Other assets					
Total assets	52,611.95	29,873.05	16,233.08	213,362.92	101,223.24
Deficit					
Total	52,611.95	29,873.05	16,233.08	213,362.92	101,223.24
LIABILITIES					
Debenture balance		4,984.67	1,039.09		4,023.56
Accounts payable		132.10	334.47	86.61	258.80
Bank overdraft					
Other liabilities	203.00	29.31	32.50	1,978.50	200.00
Total liabilities	203.00	5,146.08	1,406.06	2,065.11	4,482.36
RESERVES					
For equity in H-E.P.C. systems	13,872.20	7,430.40	6,960.14	75,996.93	36,799.69
For depreciation	8,718.91	3,755.53	3,594.53	29,855.16	13,116.94
Other reserves	95.72		22.88		128.53
Total reserves	22,686.83	11,185.93	10,577.55	105,852.09	50,045.16
SURPLUS					
Debentures paid	11,187.80	11,515.33	2,047.39	5,000.00	9,976.44
Local sinking fund					
Operating surplus	18,534.32	2,025.71	2,202.08	100,445.72	36,719.28
Total surplus	29,722.12	13,541.04	4,249.47	105,445.72	46,695.72
Total liabilities, reserves and surplus	52,611.95	29,873.05	16,233.08	213,362.92	101,223.24
Percentage of net debt to total assets	0.5	22.9	15.2	1.5	7.0

"A"—Continued

Hydro Municipalities as at December 31, 1937

Tillsonburg 3,702	Toronto 645,462	Toronto Twp.	Trafalgar Twp. Area No. 1	Trafalgar Twp. Area No. 2	Wallaceburg 4,660	Wardsville 249
4,824.27	5,430,512.92	6,366.13	....	....	37,746.29	....
15,677.20	14,637,360.58	....	....	....	9,651.80	....
45,678.58	6,406,376.38	193,059.82	22,209.55	12,044.51	58,443.80	5,180.12
....	4,133,538.61	....	....	....	....	....
18,277.12	3,604,625.15	64,205.57	9,731.56	2,376.94	35,622.82	1,501.32
19,247.08	3,139,698.47	36,544.21	5,152.37	1,674.86	20,797.12	1,308.68
11,957.61	499,121.85	3,717.44	....	....	10,879.63	519.36
....	....	....	....	....	....	....
3,995.93	2,635,168.93	8,056.85	1,998.50	358.41	3,390.24	509.73
....	....	....	....	....	....	....
....	3,570,474.01	619.65	....	....	20,941.07	193.94
119,657.79	44,056,876.90	312,569.67	39,091.98	16,454.72	197,472.77	9,213.15
7,460.80	740,620.18	24,113.18	2,554.88	1,711.68	18,210.57	206.81
11,000.00	1,055,604.69	10,000.00	4,000.00	4,000.00	15,000.00	....
5,036.60	2,013,529.75	1,516.24	333.84	226.59	12,267.09	1,817.90
2,930.84	519,200.73	....	....	....	8,520.47	....
....	7,379,060.12	....	....	....	....	....
69,106.04	15,431,836.92	81,878.22	1,059.33	328.23	148,403.64	2,883.29
....	10,995.83	....	....	....	....	....
215,192.07	71,207,725.12	430,077.31	47,040.03	22,721.22	399,874.54	14,121.15
....	....	....	....	....	....	....
215,192.07	71,207,725.12	430,077.31	47,040.03	22,721.22	399,874.54	14,121.15
5,521.13	20,959,096.69	39,313.67	8,360.42	9,461.15	31,878.39	2,416.65
66.60	1,543,588.33	10,121.18	779.83	106.63	570.10	....
....	....	....	....	....	....	....
3,273.74	199,025.75	2,711.26	....	....	2,328.98	100.00
8,861.47	22,701,710.77	52,146.11	9,140.25	9,567.78	34,777.47	2,516.65
69,106.04	15,431,836.92	81,878.22	1,059.33	328.23	148,403.64	2,883.29
37,170.29	8,515,548.28	118,927.02	15,836.46	2,182.60	55,242.12	2,777.74
834.93	1,211,388.31	862.42	....	....	1,315.09	....
107,111.26	25,158,773.51	201,667.66	16,895.79	2,510.83	204,960.85	5,661.03
30,478.87	13,492,210.09	64,686.33	11,065.99	....	39,658.19	5,145.75
....	7,379,060.12	....	....	....	....	....
68,740.47	2,475,970.63	111,577.21	9,938.00	10,642.61	120,478.03	797.72
99,219.34	23,347,240.84	176,263.54	21,003.99	10,642.61	160,136.22	5,943.47
215,192.07	71,207,725.12	430,077.31	47,040.03	22,721.22	399,874.54	14,121.15
6.1	31.7	15.0	19.9	42.7	13.8	22.4

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality Population	Water-down 875	Water ford 1,250	Waterloo 8,266	Watford 941	Welland 10,540
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	200.00		14,454.37		74,326.45
Substation equipment			64,031.18		69,936.19
Distribution system—overhead	15,833.82	16,164.58	96,047.15	17,105.64	134,669.24
Distribution system—underground					7,475.04
Line transformers	6,525.83	7,796.87	44,744.09	6,995.90	58,600.38
Meters	6,061.12	6,117.95	38,138.94	5,628.73	58,455.03
Street light equipment, regular	583.81	3,231.62	14,218.91	807.31	4,265.01
Street light equipment, ornamental			3,106.80		36,513.75
Miscellaneous construction expense	180.25	619.22	13,345.63	2,274.18	11,302.88
Steam or hydraulic plant					
Old plant			23,880.17	657.44	49,952.19
Total plant	29,384.83	33,930.24	311,967.24	33,469.20	505,496.16
Bank and cash balance	6,866.91	2,142.45	5,712.88	1,982.57	3,910.67
Securities and investments		5,300.00	35,000.00	6,800.00	9,200.87
Accounts receivable	1,733.27	856.02	1,914.65	1,788.00	29,489.01
Inventories			382.70	152.10	14,650.07
Sinking fund on local debentures			14,414.15		104,801.15
Equity in H-E.P.C. systems	18,534.80	25,530.97	206,217.60	17,987.66	236,044.07
Other assets					145.37
Total assets	56,519.81	67,759.68	575,609.22	62,179.53	903,737.37
Deficit					
Total	56,519.81	67,759.68	575,609.22	62,179.53	903,737.37
LIABILITIES					
Debenture balance			34,131.37		171,239.66
Accounts payable	8.12		917.45		407.21
Bank overdraft					
Other liabilities	109.78		3,106.80	157.00	44,263.22
Total liabilities	117.90		38,155.62	157.00	215,910.09
RESERVES					
For equity in H-E.P.C. systems	18,534.80	25,530.97	206,217.60	17,987.66	236,044.07
For depreciation	8,086.42	11,843.80	121,325.54	8,592.39	137,390.29
Other reserves			313.12	19.61	3,679.11
Total reserves	26,621.22	37,374.77	327,856.26	26,599.66	377,113.47
SURPLUS					
Debentures paid	8,000.00	7,745.53	71,868.63	9,713.21	107,770.96
Local sinking fund			14,414.15		104,801.15
Operating surplus	21,780.69	22,639.38	123,314.56	25,709.66	98,141.70
Total surplus	29,780.69	30,384.91	209,597.34	35,422.87	310,713.81
Total liabilities, reserves and surplus	56,519.81	67,759.68	575,609.22	62,179.53	903,737.37
Percentage of net debt to total assets	0.3	0.0	6.7	0.4	14.2

"A"—Continued

Hydro Municipalities as at December 31, 1937

Wellesley	West Lorne	Weston	Wheatley	Windsor	Woodbridge	Woodstock
P.V.	769	5,028	724	101,435	763	11,040
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
....	....	11,903.31	....	491,494.13	....	38,310.90
....	....	50,082.03	....	1,058,762.86	....	110,557.90
7,264.74	11,865.40	60,972.86	15,676.55	1,223,100.73	17,025.06	113,858.86
....	....	....	....	143,207.47	....	....
2,175.97	4,326.79	37,518.20	4,242.44	543,591.20	6,510.77	60,150.59
2,571.82	3,490.90	25,192.90	4,007.13	501,848.51	4,653.87	57,993.47
545.11	749.80	29,861.70	1,690.74	53,676.42	473.15	15,569.65
....	....	....	....	1,021,495.33	....	....
273.57	347.14	11,467.15	938.46	195,632.29	1,017.73	9,495.40
....	....	....	....	....	....	....
....	1,250.00	....	2,569.50	167,579.04	....	....
12,831.21	22,030.03	226,998.15	29,124.82	5,400,387.98	29,680.58	405,936.77
1,274.46	2,588.32	17,681.93	2,337.32	144,201.57	3,518.04	29,341.87
1,000.00	....	....	5,500.00	347,952.17	....	84,000.00
571.95	138.60	3,058.47	1,190.68	253,590.92	2,038.66	5,519.29
....	....	323.18	61.92	128,469.22	....	1,070.88
....	....	....	....	45,865.92	....	36,602.83
13,523.31	21,205.55	184,792.77	10,237.93	2,420,187.40	23,804.44	311,573.47
....	....	....	.. 40.00	....	....	....
29,200.93	45,962.50	432,854.50	48,492.67	8,740,655.18	59,041.72	874,045.11
....	....	....	....	....	....	....
29,200.93	45,962.50	432,854.50	48,492.67	8,740,655.18	59,041.72	874,045.11
....	....	24,628.11	5,434.30	1,115,652.67	3,704.71	41,696.31
....	360.32	7,277.76	797.32	88,305.44	1,601.25	295.67
....	....	....	....	....	....	....
....	107.25	2,568.07	30.00	1,126,285.12	384.01	7,002.86
....	467.57	34,473.94	6,261.62	2,330,243.23	5,689.97	48,994.84
13,523.31	21,205.55	184,792.77	10,237.93	2,420,187.40	23,804.44	311,573.47
3,255.68	8,185.13	47,862.12	5,159.99	968,382.85	10,134.66	170,011.21
....	25.76	996.59	....	251,497.91	....	16,158.69
16,778.99	29,416.44	233,651.48	15,397.92	3,640,068.16	33,939.10	497,743.37
7,500.00	8,000.00	45,404.33	7,565.70	1,468,179.39	4,795.26	85,689.32
....	....	....	....	45,865.92	....	36,602.83
4,921.94	8,078.49	119,324.75	19,267.43	1,256,298.48	14,617.39	205,014.75
12,421.94	16,078.49	164,729.08	26,833.13	2,770,343.79	19,412.65	327,306.90
29,200.93	45,962.50	432,854.50	48,492.67	8,740,655.18	59,041.72	874,045.11
0.0	1.9	13.9	16.4	24.0	16.1	2.3

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Concluded

Municipality	Wyoming	York Twp.	Zurich	NIAGARA SYSTEM SUMMARY
Population	516		P.V.	
ASSETS	$ c.	$ c.	$ c.	$ c.
Lands and buildings				9,074,766.77
Substation equipment				21,251,768.74
Distribution system—overhead	7,984.17	761,918.94	7,056.95	17,810,455.97
Distribution system—underground				5,666,420.78
Line transformers	1,470.55		2,237.83	8,556,510.69
Meters	2,575.09		2,353.49	7,454,933.62
Street light equipment, regular	336.65	51,926.22	471.82	1,847,232.63
Street light equipment, ornamental				1,508,564.76
Miscellaneous construction expense	805.20	17,884.94	269.97	3,922,407.10
Steam or hydraulic plant				24,022.48
Old plant			150.00	4,346,975.09
Total plant	13,171.66	831,730.10	12,540.06	81,464,058.63
Bank and cash balance	1,187.07	69,014.45	384.99	2,443,344.20
Securities and investments			4,000.00	2,462,626.49
Accounts receivable	418.38		740.68	3,564,218.67
Inventories				1,158,363.62
Sinking fund on local debentures				8,960,060.48
Equity in H-E.P.C. systems	6,592.21		10,620.65	35,053,984.34
Other assets		14,260.21		144,226.67
Total assets	21,369.32	915,004.76	28,286.38	135,250,883.10
Deficit				1,629.26
Total	21,369.32	915,004.76	28,286.38	135,252,512.36
LIABILITIES				
Debenture balance		285,156.93	2,942.60	29,434,383.47
Accounts payable	13.50	1,447.92		2,558,364.16
Bank overdraft				13,830.04
Other liabilities	30.00		30.00	3,084,276.57
Total liabilities	43.50	286,604.85	2,972.60	35,090,854.24
RESERVES				
For equity in H-E.P.C. systems	6,592.21		10,620.65	35,053,984.34
For depreciation	4,519.37	230,948.13	5,597.70	17,265,021.39
Other reserves				2,155,279.45
Total reserves	11,111.58	230,948.13	16,218.35	54,474,285.18
SURPLUS				
Debentures paid	9,700.00	277,529.32	2,649.01	23,967,278.04
Local sinking fund				8,960,060.48
Operating surplus	514.24	119,922.46	6,446.42	12,760,034.42
Total surplus	10,214.24	397,451.78	9,095.43	45,687,372.94
Total liabilities, reserves and surplus	21,369.32	915,004.76	28,286.38	135,252,512.36
Percentage of net debt to total assets	0.3	31.3	16.8	27.3

"A"—Continued

Hydro Municipalities as at December 31, 1937

GEORGIAN BAY SYSTEM

Alliston	Arthur	Barrie	Beaverton	Beeton	Bradford	Brechin	Cannington
1,320	1,052	8,126	976	605	989	P.V.	761
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
....	....	16,415.88	299.50	....	....	....	....
675.73	....	15,285.02	....	428.50	388.50	....	....
27,254.75	17,594.00	61,077.18	24,797.07	11,868.81	19,927.59	1,813.06	10,819.18
....	....	66,437.67	....	....	....	....	....
6,861.77	4,362.24	42,551.06	8,353.14	2,316.72	4,677.65	1,266.71	4,262.88
6,940.60	3,848.69	42,145.29	6,308.43	2,152.10	4,577.00	741.31	4,578.47
1,549.02	796.21	12,088.50	1,267.25	1,169.54	544.95	239.08	924.69
....	....	....	....	....	....	....	....
2,789.97	357.94	3,857.20	2,565.92	1,615.33	2,100.63	553.28	679.98
....	....	....	....	....	....	....	....
7,846.49	1,086.62	....	3,772.42	....	....	....	3,609.37
53,918.33	28,045.70	259,857.80	47,363.73	19,551.00	32,216.32	4,613.44	24,874.57
3,947.17	63.80	7,017.73	2,389.27	3,050.07	6,972.64	1,579.70	2,394.40
....	....	9,997.50	7,000.00	....	1,000.00	....	1,326.62
2,245.40	699.35	13,098.42	1,527.97	511.01	1,914.37	501.64	698.35
....	....	2,636.28	....	....	....	....	325.06
....	....	....	....	....	....	....	....
17,703.35	15,739.92	113,723.29	16,837.64	12,672.24	14,428.01	6,428.21	12,730.55
843.31	....	5,737.56	257.92	....	122.49	....	771.31
78,657.56	44,548.77	412,068.58	75,376.53	35,784.32	56,653.83	13,122.99	43,120.86
....	10,433.88	....	....	192.15	....	....	....
78,657.56	54,982.65	412,068.58	75,376.53	35,976.47	56,653.83	13,122.99	43,120.86
19,480.40	14,309.28	16,351.91	4,101.84	8,105.16	14,291.97	1,697.03	5,171.80
155.47	....	4,639.56	81.95	....	534.57	70.43	131.65
....	....	....	....	....	....	....	....
7.50	....	1,864.18	547.03	....	175.00	24.85	34.00
19,643.37	14,309.28	22,855.65	4,730.82	8,105.16	15,001.54	1,792.31	5,337.45
17,703.35	15,739.92	113,723.29	16,837.64	12,672.24	14,428.01	6,428.21	12,730.55
16,214.75	14,242.73	83,000.39	12,944.72	8,304.23	10.810.51	2,137.47	10,116.36
142.52	....	1,508.94	225.00	....	....	....	184.76
34,060.62	29,982.65	198,232.62	30,007.36	20,976.47	25,238.52	8,565.68	23,031.67
20,519.60	10,690.72	49,013.77	10,898.16	6,894.84	10,908.03	1,513.89	9,828.20
....	....	....	....	....	....	....	....
4,433.97	....	141,966.54	29,740.19	....	5,505.74	1,251.11	4,923.54
24,953.57	10,690.72	190,980.31	40,638.35	6,894.84	16,413.77	2,765.00	14,751.74
78,657.56	54,982.65	412,068.58	75,376.53	35,976.47	56,653.83	13,122.99	43,120.86
32.2	49.7	7.6	8.1	35.1	35.5	26.8	17.6

STATEMENT

Balance Sheets of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality	Chatsworth	Chesley	Coldwater	Collingwood	Cookstown
Population	321	1,766	589	5,498	P.V.
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	364.89		275.00	15,950.08	70.00
Substation equipment		2,305.58		11,203.24	392.95
Distribution system—overhead	5,040.64	20,784.79	8,451.77	49,051.22	9,306.12
Distribution system—underground					
Line transformers	1,639.93	7,062.13	2,920.61	18,470.38	2,232.60
Meters	1,610.22	6,898.78	2,862.03	22,518.84	2,217.67
Street light equipment, regular	529.17	1,350.20	775.02	2,896.16	902.02
Street light equipment, ornamental					
Miscellaneous construction expense	396.33	3,910.46	326.72	1,034.40	1,541.94
Steam or hydraulic plant					
Old plant		5,503.60			
Total plant	9,581.18	47,815.54	15,611.15	121,124.32	16,663.30
Bank and cash balance	1,751.20	155.35	743.65	3,032.06	3,415.27
Securities and investments		10,000.00	4,000.00	24,000.00	3,000.00
Accounts receivable	1,089.60	987.66	1,931.47	5,732.04	408.24
Inventories		270.07		64.78	
Sinking fund on local debentures					
Equity in H-E.P.C. systems	3,432.20	28,495.72	11,725.59	111,159.57	4,137.43
Other assets			278.38	746.63	69.98
Total assets	15,854.18	87,724.34	34,290.24	265,859.40	27,694.22
Deficit					
Total	15,854.18	87,724.34	34,290.24	265,859.40	27,694.22
LIABILITIES					
Debenture balance	223.63		2,405.98		5,228.73
Accounts payable	3.36	374.55	1,194.54	70.59	8.03
Bank overdraft					
Other liabilities	74.00		182.00	2,138.19	25.00
Total liabilities	300.99	374.55	3,782.52	2,208.78	5,261.76
RESERVES					
For equity in H-E.P.C. systems	3,432.20	28,495.72	11,725.59	111,159.57	4,137.43
For depreciation	3,034.91	17,628.94	8,798.74	56,589.70	7,087.91
Other reserves			40.43	425.00	
Total reserves	6,467.11	46,124.66	20,564.76	168,174.27	11,225.34
SURPLUS					
Debentures paid	5,176.37	27,500.00	4,594.02	38,183.42	8,271.27
Local sinking fund					
Operating surplus	3,909.71	13,725.13	5,348.94	57,292.93	2,935.85
Total surplus	9,086.08	41,225.13	9,942.96	95,476.35	11,207.12
Total liabilities, reserves and surplus	15,854.18	87,724.34	34,290.24	265,859.40	27,694.22
Percentage of net debt to total assets	2.4	0.6	16.8	1.4	22.3

"A"—Continued

Hydro Municipalities as at December 31, 1937

Creemore 631	Dundalk 652	Durham 1,816	Elmvale P.V.	Elmwood P.V.	Flesherton 446	Grand Valley 582	Gravenhurst 1,996
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
....	....	56.59	106.25	....	....	36.50	4,181.62
....	....	546.02	2,273.07	....	....	....	5,337.20
7,498.70	8,202.88	22,297.30	9,376.49	4,822.81	5,670.31	11,392.19	30,658.78
....	....	....	....	....	....	....	....
3,171.36	3,761.90	8,052.59	4,270.64	833.38	1,797.67	2,179.63	10,188.59
3,021.57	2,767.39	7,401.32	3,777.76	1,160.29	2,275.73	2,992.51	10,629.79
295.27	1,082.10	1,521.57	447.17	302.28	720.51	987.12	4,348.80
....	....	....	....	....	....	....	....
36.62	343.29	1,756.30	541.64	1,093.62	1,019.11	224.42	3,139.16
....	....	....	....	....	....	....	....
....	....	2,091.39	....	....	....	....	28,055.29
14,023.52	16,157.56	43,723.08	20,793.02	8,212.38	11,483.33	17,812.37	96,539.23
1,633.57	4,589.70	5,543.59	2,381.27	1,209.13	4,872.51	1,828.50	8,920.08
3,000.00	3,000.00	7,000.00	2,500.00	3,000.00	....	5,128.60	....
606.79	98.91	726.45	528.73	158.94	223.58	445.19	2,871.49
....	12.26	491.66	....	....	....	28.80	1,051.23
....	....	....	....	463.68	....	....	9,881.92
9,592.55	9,722.37	25,283.16	12,445.69	3,211.63	5,409.34	9,606.44	20,468.95
....	....	....	79.66	....	....	....	347.60
28,856.43	33,580.80	82,767.94	38,728.37	16,255.76	21,988.76	34,849.90	140,080.50
....	....	....	....	....	....	....	....
28,856.43	33,580.80	82,767.94	38,728.37	16,255.76	21,988.76	34,849.90	140,080.50
....	....	....	1,971.44	946.80	2,589.13	....	10,000.00
513.59	75.84	332.81	30.37	22.98	51.10	....	78.29
....	....	....	....	....	....	....	....
114.00	....	....	....	....	....	....	552.50
627.59	75.84	332.81	2,001.81	969.78	2,640.23	....	10,630.79
9,592.55	9,722.37	25,283.16	12,445.69	3,211.63	5,409.34	9,606.44	20,468.95
4,783.54	5,452.24	13,863.66	9,152.22	3,651.09	4,255.77	7,260.44	20,300.17
....	....	....	....	....	319.24	....	500.00
14,376.09	15,174.61	39,146.82	21,597.91	6,862.72	9,984.35	16,866.88	41,269.12
2,823.61	5,955.96	25,800.00	5,028.56	6,253.20	4,110.87	11,000.00	53,968.41
....	....	....	....	463.68	....	....	9,881.92
11,029.14	12,374.39	17,488.31	10,100.09	1,706.38	5,253.31	6,983.02	24,330.26
13,852.75	18,330.35	43,288.31	15,128.65	8,423.26	9,364.18	17,983.02	88,180.59
28,856.43	33,580.80	82,767.94	38,728.37	16,255.76	21,988.76	34,849.90	140,080.50
3.2	0.3	0.6	7.6	4.0	15.9	0.0	0.7

STATEMENT

Balance Sheets of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality	Hanover	Holstein	Huntsville	Kincardine	Kirkfield
Population	3,061	P.V.	2,700	2,468	P.V.
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	3,001.32	....	353.52	6,531.80	....
Substation equipment	9,271.19	....	647.30	2,794.20	....
Distribution system—overhead	49,683.20	2,117.63	18,565.98	43,793.35	5,157.99
Distribution system—underground	....	....	....	....	....
Line transformers	19,354.53	685.79	9,435.67	11,611.45	557.90
Meters	16,497.24	601.37	11,040.21	11,342.61	737.11
Street light equipment, regular	2,350.30	168.69	6,991.23	5,658.76	379.00
Street light equipment, ornamental	....	....	....	....	....
Miscellaneous construction expense	6,312.32	190.39	1,369.97	5,901.63	301.53
Steam or hydraulic plant	....	....	....	....	....
Old plant	2,370.91	....	5,226.20	....	....
Total plant	108,841.01	3,763.87	53,630.08	87,633.80	7,133.53
Bank and cash balance	6,752.58	913.31	1,265.79	1,852.02	309.12
Securities and investments	25,422.50	1,500.00	14,791.80	....	....
Accounts receivable	959.51	16.18	1,648.73	2,691.20	298.64
Inventories	95.77	....	3,564.90	573.57	....
Sinking fund on local debentures	....	....	....	....	....
Equity in H-E.P.C. systems	65,836.77	2,160.65	45,793.73	31,664.72	2,554.26
Other assets	....	....	671.91	584.68	523.10
Total assets	207,908.14	8,354.01	121,366.94	124,999.99	10,818.65
Deficit	....	....	....	....	1,338.17
Total	207,908.14	8,354.01	121,366.94	124,999.99	12,156.82
LIABILITIES					
Debenture balance	9,601.65	....	468.18	16,468.52	1,398.36
Accounts payable	3,169.28	672.23	1,225.37	....	776.28
Bank overdraft	....	....	....	....	....
Other liabilities	6.00	....	900.69	....	....
Total liabilities	12,776.93	672.23	2,594.24	16,468.52	2,174.64
RESERVES					
For equity in H-E.P.C. systems	65,836.77	2,160.65	45,793.73	31,664.72	2,554.26
For depreciation	48,562.24	1,426.25	13,275.71	24,763.33	2,826.28
Other reserves	....	....	2,008.95	....	....
Total reserves	114,399.01	3,586.90	61,078.39	56,428.05	5,380.54
SURPLUS					
Debentures paid	77,898.35	2,762.05	20,665.36	47,731.48	4,601.64
Local sinking fund	....	....	....	....	....
Operating surplus	2,833.85	1,332.83	37,028.95	4,371.94	....
Total surplus	80,732.20	4,094.88	57,694.31	52,103.42	4,601.64
Total liabilities, reserves and surplus	207,908.14	8,354.01	121,366.94	124,999.99	12,156.82
Percentage of net debt to total assets	9.0	10.9	3.4	17.6	26.3

"A"—Continued

Hydro Municipalities as at December 31, 1937

Lucknow 1,068	Markdale 802	Meaford 2,719	Midland 6,690	Mildmay 750	Mount Forest 1,815	Neustadt 451	Orangeville 2,479
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
....	....	1,116.53	19,983.57	....	3,725.00	....	2,585.07
....	780.80	3,240.15	85,096.20	....	686.75	....	1,169.00
18,164.50	10,400.08	31,441.16	94,799.59	6,056.32	23,092.70	9,995.44	34,746.13
....	....	....	....	....	....	....	....
5,244.47	4,151.74	8,276.72	24,402.13	1,657.05	7,085.19	4,146.92	8,585.53
4,979.49	3,905.36	8,303.54	37,836.41	2,580.71	7,962.41	2,130.95	12,453.12
1,475.15	1,314.08	3,287.42	19,139.42	561.88	2,397.89	496.41	7,532.55
....	....	....	....	....	....	....	....
2,469.50	658.45	2,374.80	4,594.10	1,293.66	2,367.91	1,514.86	6,656.17
....	....	....	....	....	....	....	....
....	2,080.65	3,452.38	....	849.00	3,810.95	1,097.60	3,204.99
32,333.11	23,291.16	61,492.70	285,851.42	12,998.62	51,128.80	19,382.18	76,932.56
935.05	822.90	1,388.53	14,742.21	1,945.22	1,266.73	1,428.70	6,120.62
5,000.00	4,255.13	16,584.16	39,000.00	2,500.00	4,000.00	2,000.00	9,500.00
1,660.19	1,091.75	1,183.02	8,993.62	423.65	1,012.93	974.28	1,037.79
....	....	0.76	2,739.21	....	91.16	27.28	433.07
....	....	....	....	....	....	....	....
15,007.73	7,906.55	21,886.41	176,453.92	1,639.82	24,969.87	5,433.59	33,910.91
....	....	238.87	610.32	....	....	....	....
54,936.08	37,367.49	102,774.45	528,390.70	19,507.31	82,469.49	29,246.03	127,934.95
....	....	....	....	....	....	1,911.91	....
54,936.08	37,367.49	102,774.45	528,390.70	19,507.31	82,469.49	31,157.94	127,934.95
6,364.79	4,060.83	24,171.48	13,776.42	10,476.27	8,811.83	2,238.99	281.65
1,307.29	....	93.31	301.34	....	15.27	50.25	1,500.00
....	....	....	....	....	....	....	....
....	22.00	1,194.33	831.95	....	....	....	....
7,672.08	4,082.83	25,459.12	14,909.71	10,476.27	8,827.10	2,289.24	1,781.65
15,007.73	7,906.55	21,886.41	176,453.92	1,639.82	24,969.87	5,433.59	33,910.91
7,636.20	6,574.22	13,175.61	148,595.04	1,139.00	18,680.83	8,674.10	25,513.46
....	....	....	2,953.88	....	....	....	....
22,643.93	14,480.77	35,062.02	328,002.84	2,778.82	43,650.70	14,107.69	59,424.37
13,358.57	4,939.17	25,188.72	98,168.57	1,827.23	22,146.77	14,761.01	35,618.35
....	....	....	....	....	....	....	....
11,261.50	13,864.72	17,064.59	87,309.58	4,424.99	7,844.92	....	31,110.58
24,620.07	18,803.89	42,253.31	185,478.15	6,252.22	29,991.69	14,761.01	66,728.93
54,936.08	37,367.49	102,774.45	528,390.70	19,507.31	82,469.49	31,157.94	127,934.95
19.2	13.9	31.5	4.2	58.6	15.4	9.6	1.9

STATEMENT

Balance Sheets of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality Population	Owen Sound 13,100	Paisley 792	Penetagguishene 4,061	Port Elgin 1,267	Port McNicoll 933
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	26,023.81	....	2,288.05	111.25	369.08
Substation equipment	15,131.59	1,923.46	7,076.39	....	....
Distribution system—overhead	109,885.76	11,623.28	44,627.31	26,818.38	8,444.44
Distribution system—underground	....	....	....	....	....
Line transformers	48,164.86	1,602.53	17,731.82	6,400.57	1,400.23
Meters	58,302.39	3,086.84	14,525.52	6,884.80	2,502.88
Street light equipment, regular	29,695.51	1,045.51	3,770.88	2,123.60	590.62
Street light equipment, ornamental	....	....	....	....	....
Miscellaneous construction expense	3,997.37	815.70	1,232.96	1,339.55	767.95
Steam or hydraulic plant	33,282.00	....	....	....	....
Old plant	....	1,745.00	....	4,213.00	....
Total plant	324,483.29	21,842.32	91,252.93	47,891.15	14,075.20
Bank and cash balance	17,200.75	1,295.68	1,954.46	3,299.64	1,191.01
Securities and investments	25,000.00	4,000.00	1,016.65	10,000.00	....
Accounts receivable	7,415.89	674.68	4,369.80	266.45	177.92
Inventories	10,033.33	....	120.51	....	....
Sinking fund on local debentures	....	....	....	....	....
Equity in H-E.P.C. systems	158,806.78	8,500.33	50,829.08	6,380.58	4,976.53
Other assets	....	....	324.73	....	....
Total assets	542,940.04	36,313.01	149,868.16	67,837.82	20,420.66
Deficit	....	....	....	....	....
Total	542,940.04	36,313.01	149,868.16	67,837.82	20,420.66
LIABILITIES					
Debenture balance	....	6,688.38	8,134.31	31,657.99	715.47
Accounts payable	244.44	9.91	108.23	3,935.06	....
Bank overdraft	....	....	....	....	....
Other liabilities	4,086.98	....	355.00	10.00	45.00
Total liabilities	4,331.42	6,698.29	8,597.54	35,603.05	760.47
RESERVES					
For equity in H-E.P.C. systems	158,806.78	8,500.33	50,829.08	6,380.58	4,976.53
For depreciation	65,164.46	5,416.45	37,275.19	5,764.23	4,803.22
Other reserves	10,000.00	....	1,000.00	....	....
Total reserves	233,971.24	13,916.78	89,104.27	12,144.81	9,779.75
SURPLUS					
Debentures paid	141,000.00	9,311.62	28,848.64	10,342.01	6,584.53
Local sinking fund	....	....	....	....	....
Operating surplus	163,637.38	6,386.32	23,317.71	9,747.95	3,295.91
Total surplus	304,637.38	15,697.94	52,166.35	20,089.96	9,880.44
Total liabilities, reserves and surplus	542,940.04	36,313.01	149,868.16	67,837.82	20,420.66
Percentage of net debt to total assets	1.1	24.1	8.7	57.9	4.9

"A"—Continued

Hydro Municipalities as at December 31, 1937

Port Perry 1,124	Priceville P.V.	Ripley 442	Rosseau 315	Shelburne 1,114	Southampton 1,255	Stayner 999	Sunderland P.V.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
....	68.00	....	....	800.00	25.00	200.00	....
2,564.65	....	....	....	566.60	....	....	....
19,209.99	4,942.41	9,991.09	7,287.49	14,975.58	23,731.25	15,318.82	4,203.39
....	....	....	....	....	....	....	....
4,654.69	702.86	3,693.93	2,204.63	6,309.57	6,640.27	5,946.60	1,523.48
4,218.00	470.60	1,545.37	1,083.86	6,538.06	7,662.36	6,116.07	2,122.15
1,037.90	139.88	844.33	514.22	1,059.60	2,000.73	1,003.31	627.74
....	....	....	....	....	....	....	....
120.18	833.90	1,243.26	1,269.71	2,233.26	1,508.71	441.38	187.02
....	....	....	....	....	....	....	....
....	....	....	....	739.50	2,477.00	....	2,030.00
31,805.41	7,157.65	17,317.98	12,359.91	33,222.17	44,045.32	29,026.18	10,693.78
2,339.61	333.24	2,212.78	1,990.31	1,824.87	2,950.20	229.89	1,873.85
10,000.00	....	....	....	6,500.00	....	6,000.00	....
636.58	213.00	176.09	334.74	254.39	303.80	648.15	95.65
....	....	....	....	59.40	6.37	....	....
....	....	....	....	....	....	....	....
12,977.59	746.34	5,960.98	2,260.22	15,107.81	5,771.65	12,943.81	8,423.71
....	....	....	145.60	270.00	....	22.73	213.12
57,759.19	8,450.23	25,667.83	17,090.78	57,238.64	53,077.34	48,870.76	21,300.11
....	1,623.54	....	....	....	....	....	....
57,759.19	10,073.77	25,667.83	17.090.78	57,238.64	53,077.34	48,870.76	21,300.11
11,495.07	1,398.39	8,618.98	11,454.02	772.17	17,663.98	....	378.27
....	46.57	....	285.45	58.81	492.53	664.78	225.19
....	....	....	....	....	....	....	....
514.00	....	151.83	....	31.78	7.67	180.00	6.00
12,009.07	1,444.96	8,770.81	11,739.47	862.76	18,164.18	844.78	609.46
12,977.59	746.34	5,960.98	2,260.22	15,107.81	5,771.65	12,943.81	8,423.71
8,429.61	2,280.86	4,844.31	1,407.47	13,532.88	4,432.15	11,357.28	4,402.44
....	....	....	....	....	....	40.00	....
21,407.20	3,027.20	10,805.29	3,667.69	28,640.69	10,203.80	24,341.09	12,826.15
8,386.59	5,601.61	5,352.96	1,545.98	19,147.83	15,336.02	9,867.59	6,421.73
....	....	....	....	....	....	....	....
15,956.33	....	738.77	137.64	8,587.36	9,373.34	13,817.30	1,442.77
24,342.92	5,601.61	6,091.73	1,683.62	27,735.19	24,709.36	23,684.89	7,864.50
57,759.19	10,073.77	25,667.83	17,090.78	57,238.64	53,077.34	48,870.76	21,300.11
26.8	18.8	44.5	79.1	2.0	38.4	2.4	4.7

STATEMENT

Balance Sheets of Electrical Departments of

GEORGIAN BAY SYSTEM—Concluded

Municipality	Tara	Teeswater	Thornton	Tottenham	Uxbridge
Population	471	837	P.V.	540	1,483
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings					40.00
Substation equipment		330.31		358.50	2,657.65
Distribution system—overhead	11,198.61	17,260.71	6,478.82	8,395.33	14,454.20
Distribution system—underground					
Line transformers	2,292.77	5,362.15	1,015.06	1,376.38	4,076.22
Meters	1,804.33	3,596.58	924.56	2,227.73	5,070.42
Street light equipment, regular	2,602.39	1,488.82	381.95	466.26	1,489.77
Street light equipment, ornamental					
Miscellaneous construction expense	1,457.79	1,855.49	300.35	1,337.98	1,015.12
Steam or hydraulic plant					
Old plant		4,976.86		286.45	
Total plant	19,355.89	34,870.92	9,100.74	14,448.63	28,803.38
Bank and cash balance	1,933.38	534.12	892.09	941.83	3,102.25
Securities and investments		2,500.00			
Accounts receivable	299.81	515.07	65.15	741.28	785.15
Inventories					
Sinking fund on local debentures					
Equity in H-E.P.C. systems	6,734.91	9,586.49	2,662.05	8,427.27	13,722.60
Other assets					25.34
Total assets	28,323.99	48,006.60	12,720.03	24,559.01	46,438.72
Deficit	1,879.99		2,504.02	2,941.82	
Total	30,203.98	48,006.60	15,224.05	27,500.83	46,438.72
LIABILITIES					
Debenture balance	1,806.15	6,840.09	1,418.48	5,874.23	
Accounts payable	773.57	624.31	28.90	40.89	101.05
Bank overdraft					
Other liabilities		33.00		244.00	149.85
Total liabilities	2,579.72	7,497.40	1,447.38	6,159.12	250.90
RESERVES					
For equity in H-E.P.C. systems	6,734.91	9,586.49	2,662.05	8,427.27	13,722.60
For depreciation	7,195.50	7,161.23	5,033.10	5,821.57	6,271.45
Other reserves					
Total reserves	13,930.41	16,747.72	7,695.15	14,248.84	19,994.05
SURPLUS					
Debentures paid	13,693.85	21,159.91	6,081.52	7,092.87	16,207.59
Local sinking fund					
Operating surplus		2,601.57			9,986.18
Total surplus	13,693.85	23,761.48	6,081.52	7,092.87	26,193.77
Total liabilities, reserves and surplus	30,203.98	48,006.60	15,224.05	27,500.83	46,438.72
Percentage of net debt to total assets	11.9	19.5	14.4	38.2	0.7

"A"—Continued

Hydro Municipalities as at December 31, 1937

Victoria Harbor 1,043	Walkerton 2,350	Waubaushene P.V.	Wiarton 1,766	Windermere 146	Wingham 2,115	Woodville 365	GEORGIAN BAY SYSTEM SUMMARY
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
...	...	...	241.79	...	21,049.29	...	126,269.39
...	...	...	...	...	4,863.91	...	177,994.46
9,830.46	41,890.74	9,165.21	21,153.38	9,365.60	40,474.75	3,280.45	1,209,727.16
...	...	...	...	...	...	...	66,437.67
1,796.97	12,282.21	2,454.90	5,868.28	3,260.50	16,450.49	1,995.54	411,636.18
2,758.61	11,537.05	2,456.48	6,795.78	1,002.87	15,573.14	2,227.45	432,830.22
366.32	2,548.25	303.35	2,088.72	247.26	3,489.76	521.83	146,937.92
...	...	...	...	...	...	...	...
674.75	2,365.04	349.59	5,872.88	525.65	4,255.51	296.71	102,187.36
...	...	...	...	...	14,711.99	...	47,993.99
...	4,897.60	...	2,021.79	...	12,320.02	2,182.50	111,947.58
15,427.11	75,520.89	14,729.53	44,042.62	14,401.88	133,188.86	10,504.48	2,833,961.93
1,598.73	2,410.54	531.36	5,033.89	799.65	800.30	1,144.58	165,652.45
...		...	10,000.00	...	4,000.00	5,000.00	292,523.96
739.23	3,485.27	429.12	1,923.21	503.12	4,230.46	1,222.99	89,503.09
...	1,651.76	...	45.79	...	4,099.65	...	28,422.67
...	...	...	...	...	...	...	10,345.60
5,278.78	10,825.61	3,138.64	8,754.09	1,660.73	28,052.12	8,298.89	1,301,000.37
...	...	...	...	...	...	202.83	13,088.07
23,043.85	93,894.07	18,828.65	69,799.60	17,365.38	174,371.39	26,373.77	4,734,498.14
...	...	...	...	...	...	...	22,825.48
23,043.85	93,894.07	18,828.65	69,799.60	17,365.38	174,371.39	26,373.77	4,757,323.62
...	50,040.44	...	31,150.14	10,030.68	28,729.71	1,802.45	441,663.47
60.00	42.81	1,012.01	3,066.05	...	407.76	60.46	29,769.08
...	...	...	...	...	...	...	...
...	63.00	...	25.00	...	551.00	...	15,147.33
60.00	50,146.25	1,012.01	34,241.19	10,030.68	29,688.47	1,862.91	486,579.88
5,278.78	10,825.61	3,138.64	8,754.09	1,660.73	28,052.12	8,298.89	1,301,000.37
5,372.59	6,823.90	2,603.11	5,363.94	1,980.40	30,696.36	2,499.78	896,406.24
...	...	...	...	...	...	250.00	19,598.72
10,651.37	17,649.51	5,741.75	14,118.03	3,641.13	58,748.48	11,048.67	2,217,005.33
6,500.00	12,959.56	3,500.00	6,249.86	1,732.62	67,375.79	3,697.55	1,122,598.40
...	...	...	...	...	...	...	10,345.60
5,832.48	13,138.75	8,574.89	15,190.52	1,960.95	18,558.65	9,764.64	920,794.41
12,332.48	26,098.31	12,074.89	21,440.38	3,693.57	85,934.44	13,462.19	2,053,738.41
23,043.85	93,894.07	18,828.65	69,799.60	17,365.38	174,371.39	26,373.77	4,757,323.62
0.3	60.4	6.5	56.1	63.9	20.3	10.3	13.9

STATEMENT

Balance Sheets of Electrical Departments of

EASTERN ONTARIO SYSTEM

Municipality	Alexandria	Apple Hill	Athens	Bath	Belleville
Population	1,926	P.V.	669	318	14,509
Assets	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	202.00	169.06			40,214.90
Substation equipment					2,338.65
Distribution system—overhead	28,269.44	2,935.47	14,136.10	6,051.92	117,064.81
Distribution system—underground					
Line transformers	8,526.59	1,288.37	1,980.47	1,021.65	26,437.08
Meters	7,166.19	1,113.07	2,896.39	735.77	61,964.03
Street light equipment, regular	2,224.20	421.12	698.90	554.37	21,531.01
Street light equipment, ornamental					
Miscellaneous construction expense	5,098.40	273.13	1,011.61	727.38	10,700.84
Steam or hydraulic plant					
Old plant	4,466.89	709.55			
Total plant	55,953.71	6,909.77	20,723.47	9,091.09	280,251.32
Bank and cash balance	5,600.02	1,253.76	1,347.68	50.53	47,576.18
Securities and investments	5,000.00		3,500.00		5,000.00
Accounts receivable	4,587.51	258.36	1,242.90		44,389.58
Inventories					9,100.04
Sinking fund on local debentures					
Equity in H-E.P.C. systems	24,795.74	2,580.55	4,388.60	1,380.53	119,707.98
Other assets					
Total assets	95,936.98	11,002.44	31,202.65	10,522.15	506,025.10
Deficit				120.82	
Total	95,936.98	11,002.44	31,202.65	10,642.97	506,025.10
Liabilities					
Debenture balance	9,323.05	1,939.27	9,480.44	6,299.55	
Accounts payable		100.00	1.16	583.44	
Bank overdraft					
Other liabilities	493.10			110.00	9,939.00
Total liabilities	9,816.15	2,039.27	9,481.60	6,992.99	9,939.00
Reserves					
For equity in H-E.P.C. systems	24,795.74	2,580.55	4,388.60	1,380.53	119,707.98
For depreciation	16,105.76	2,034.26	3,607.62	1,069.00	37,456.38
Other reserves	377.83		106.06		1,034.40
Total reserves	41,279.33	4,614.81	8,102.28	2,449.53	158,198.76
Surplus					
Debentures paid	38,810.79	4,060.73	4,519.56	1,200.45	176,000.00
Local sinking fund					
Operating surplus	6,030.71	287.63	9,099.21		161,887.34
Total surplus	44,841.50	4,348.36	13,618.77	1,200.45	337,887.34
Total liabilities, reserves and surplus	95,936.98	11,002.44	31,202.65	10,642.97	506,025.10
Percentage of net debt to total assets	13.8	24.2	35.4	76.5	2.6

"A"—Continued

Hydro Municipalities as at December 31, 1937

Bloomfield 663	Bowman-ville 3,611	Brighton 1,420	Brockville 9,903	Cardinal 1,471	Carleton Place 4,275	Chester-ville 1,067	Cobden 637
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
....	28,156.36	....	45,295.14	....	13,390.32	335.00	....
410.00	894.47	....	1,000.87	....	2,471.63	....	....
11,184.20	46,741.20	15,446.61	90,630.37	12,518.07	44,138.34	10,042.42	3,865.51
....	....	....	....	....	....	....	....
2,251.58	8,535.70	5,494.32	41,088.61	3,087.42	11,831.64	3,688.10	574.98
2,885.95	18,333.17	6,943.26	47,069.29	3,169.23	17,984.46	4,568.11	839.90
908.20	2,966.51	821.98	25,196.19	491.85	6,699.55	593.64	412.00
....	....	....	....	....	....	....	....
1,403.42	5,232.04	834.33	3,495.53	1,159.98	5,335.10	1,051.34	45.86
....	....	....	46,965.86	....	....	....	....
....	....	....	4,821.76	3,474.80	5,289.19	....	2,853.85
19,043.35	110,859.45	29,540.50	305,563.62	23,901.35	107,140.23	20,278.61	8,592.10
3,612.89	6,992.82	2,892.02	8,699.06	810.35	1,263.73	528.13	2,518.62
....	....	....	115,000.00	3,000.00	20,000.00	9,000.00	....
31.15	12,698.43	2,826.93	6,984.75	766.70	8,816.05	2,940.84	383.63
....	3,646.63	5,273.27	2,726.52	....	1,144.43	578.00	....
....	....	....	....	....	....	....	....
4,435.38	36,749.38	7,818.54	133,152.53	3,471.65	60,999.15	22,517.71	286.41
....	....	....	....	....	....	....	....
27,122.77	170,946.71	48,351.26	572,126.48	31,950.05	199,363.59	55,843.29	11,780.76
....	....	....	....	....	....	....	....
27,122.77	170,946.71	48,351.26	572.126,48	31,950.05	199,363.59	55,843.29	11,780.76
5,329.62	31,785.03	15,063.12	....	10,568.19	32,467.64	249.65	6,428.62
112.99	1,373.86	....	7,238.94	947.61	10.20	720.85	....
....	....	....	....	....	....	....	....
69.00	1,115.21	137.78	45.40	....	1,109.40	....	75.00
5,511.61	34,274.10	15,200.90	7,284.34	11,515.80	33,587.24	970.50	6,503.62
4,435.38	36,749.38	7,818.54	133,152.53	3,471.65	60,999.15	22,517.71	286.41
6,126.96	10,318.50	3,450.23	100,952.63	2,376.40	12,868.30	6,213.17	237.71
....	....	780.17	15,388.34	....	1,434.80	....	....
10,562.34	47,067.88	12,048.94	249,493.50	5,848.05	75,302.25	28,730.88	524.12
5,870.38	39,214.97	9,936.88	226,657.54	4,431.81	33,532.36	6,250.35	1,374.65
....	....	....	....	....	....	....	....
5,178.44	50,389.76	11,164.54	88,691.10	10,154.39	56,941.74	19,891.56	3,378.37
11,048.82	89,604.73	21,101.42	315,348.64	14,586.20	90,474.10	26,141.91	4,753.02
27,122.77	170,946.71	48,351.26	572,126.48	31,950.05	199,363.59	55,843.29	11,780.76
24.3	25.5	37.5	1.7	40.4	24.3	2.9	56.6

STATEMENT

Balance Sheets of Electrical Departments of

EASTERN ONTARIO SYSTEM—Continued

Municipality	Cobourg	Colborne	Deseronto	Finch	Hastings
Population	5,063	954	1,287	392	811
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	29,949.68		597.41		
Substation equipment	1,668.35		161.18		
Distribution system—overhead	73,057.31	10,307.97	10,310.90	7,669.04	15,987.74
Distribution system—underground					
Line transformers	22,110.17	1,117.89	1,702.57	1,393.35	2,143.13
Meters	26,944.45	2,178.21	4,807.54	1,798.27	3,292.38
Street light equipment, regular	9,430.31	1,444.81	432.60	478.87	1,245.84
Street light equipment, ornamental					
Miscellaneous construction expense	5,022.10	3,306.66	543.60	157.38	739.23
Steam or hydraulic plant					
Old plant					1,733.13
Total plant	168,182.37	18,355.54	18,555.80	11,496.91	25,141.45
Bank and cash balance		1,491.46	625.60	1,065.77	358.40
Securities and investments		3,500.00		3,000.00	5,500.00
Accounts receivable	19,505.51	623.27	1,962.08	792.18	699.35
Inventories	4,139.75	817.44	1,101.71	20.22	
Sinking fund on local debentures					
Equity in H-E.P.C. systems	27,277.02	2,141.19	4,671.43	3,132.24	2,357.56
Other assets					
Total assets	219,104.65	26,928.90	26,916.62	19,507.32	34,056.76
Deficit					
Total	219,104.65	26,928.90	26,916.62	19,507.32	34,056.76
LIABILITIES					
Debenture balance	87,898.74	10,818.53	3,382.99	4,491.80	16,851.56
Accounts payable	4,285.78			180.85	
Bank overdraft	2,305.08				
Other liabilities	4,232.16	212.00	276.12	10.00	154.00
Total liabilities	98,721.76	11,030.53	3,659.11	4,682.65	17,005.56
RESERVES					
For equity in H-E.P.C. systems	27,277.02	2,141.19	4,671.43	3,132.24	2,357.56
For depreciation	14,737.12	1,268.00	2,518.92	1,951.28	2,921.41
Other reserves				10.59	
Total reserves	42,014.14	3,409.19	7,190.35	5,094.11	5,278.97
SURPLUS					
Debentures paid	18,094.76	1,376.06	11,617.01	2,508.20	4,148.44
Local sinking fund					
Operating surplus	60,273.99	11,113.12	4,450.15	7,222.36	7,623.79
Total surplus	78,368.75	12,489.18	16,067.16	9,730.56	11,772.23
Total liabilities, reserves and surplus	219,104.65	26,928.90	26,916.62	19,507.32	34,056.76
Percentage of net debt to total assets	51.5	44.5	16.4	28.6	53.6

"A"—Continued

Hydro Municipalities as at December 31, 1937

Havelock	Kemptville	Kingston	Lakefield	Lanark	Lancaster	Lindsay
1,208	1,178	23,513	1,337	623	608	7,116
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
....	3,475.18	213,142.48	3,137.97	....	....	10,556.68
572.90	....	68,657.08	....	....	....	3,176.56
19,786.70	20,866.81	175,405.83	22,221.45	6,802.57	6,455.81	87,540.36
....	....	186,386.18	....	....	....	....
2,796.25	6,483.37	64,182.64	5,748.97	1,267.23	1,044.32	24,852.79
5,510.31	7,118.81	110,117.95	7,311.82	2,036.95	1,609.91	32,100.81
1,883.33	1,063.16	75,339.48	1,876.05	682.38	650.65	10,311.90
....	....	....	....	....	....	....
4,497.17	6,437.93	43,872.39	3,652.05	371.51	1,068.55	7,222.40
....	....	15,890.14	....	....	....	....
2,420.45	....	....	3,445.25	....	....	....
37,467.11	45,445.26	952,994.17	47,393.56	11,160.64	10,829.24	175,761.50
1,466.43	2,165.73	8,980.69	2,593.75	1,792.61	3,770.05	6,978.03
10,000.00	20,000.00	276,175.00	8,000.00	1,982.05	....	55,000.00
617.66	2,345.65	25,773.94	1,889.28	267.22	321.36	7,406.45
....	749.28	8,796.80	....	....	....	345.26
....	....	19,677.49	....	....	....	....
9,194.60	15,747.78	....	9,159.83	4,812.37	4,940.99	65,827.39
....	....	1,000.00	....	....	....	....
58,745.80	86,453.70	1,293,398.09	69,036.42	20,014.89	19,861.64	311,318.63
....	....	....	....	....	....	....
58,745.80	86,453.70	1,293,398.09	69,036.42	20,014.89	19,861.64	311,318.63
8,204.09	16,078.51	58,822.02	22,061.29	658.81	....	86,648.69
....	3,600.74	16,255.00	....	....	88.26	....
....	....	....	....	....	....	....
....	....	3,812.07	609.80	30.00	128.36	2,358.93
8,204.09	19,679.25	78,889.09	22,671.09	688.81	216.62	89,007.62
9,194.60	15,747.78	....	9,159.83	4,812.37	4,940.99	65,827.39
9,639.46	10,542.88	196,146.79	13,543.70	2,925.25	3,574.00	30,869.00
....	....	292,283.53	....	....	....	....
18,834.06	26,290.66	488,430.32	22,703.53	7,737.62	8,514.99	96,696.39
24,695.91	8,921.49	253,077.98	11,438.71	6,902.66	9,970.42	43,351.31
....	....	19,677.49	....	....	....	....
7,011.74	31,562.30	453,323.21	12,223.09	4,685.80	1,159.61	82,263.31
31,707.65	40,483.79	726,078.68	23,661.80	11,588.46	11,130.03	125,614.62
58,745.80	86,453.70	1,293,398.09	69,036.42	20,014.89	19,861.64	311,318.63
16.5	27.8	4.6	37.2	4.5	1.5	36.3

STATEMENT

Balance Sheets of Electrical Departments of

EASTERN ONTARIO SYSTEM—Continued

Municipality	Madoc	Marmora	Martintown	Maxville	Napanee
Population	1,253	948	P.V.	741	3,061
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	100.00	....	126.15	....	2,634.47
Substation equipment	....	....	....	407.79	....
Distribution system—overhead	11,431.45	13,609.20	2,746.79	11,665.96	42,892.30
Distribution system—underground	....	....	....	....	....
Line transformers	3,271.56	3,629.11	690.33	1,781.21	9,192.74
Meters	5,105.30	3,846.98	955.81	2,486.97	17,052.28
Street light equipment, regular	1,577.14	1,193.23	335.26	1,908.93	4,013.17
Street light equipment, ornamental	....	....	....	....	....
Miscellaneous construction expense	304.70	2,091.11	739.49	2,374.74	5,123.60
Steam or hydraulic plant	....	....	....	....	....
Old plant	....	573.62	....	....	....
Total plant	21,790.15	24,943.25	5,593.83	20,625.60	80,908.56
Bank and cash balance	6,609.59	3,352.85	1,248.76	2,828.53	6,202.55
Securities and investments	....	240.81	1,000.00	1,000.00	....
Accounts receivable	246.79	590.68	172.40	936.11	17,253.95
Inventories	....	....	....	64.80	6,630.09
Sinking fund on local debentures	....	....	....	....	....
Equity in H-E.P.C. systems	5,193.85	3,965.41	1,611.09	7,542.66	29,087.33
Other assets	....	....	....	....	....
Total assets	33,840.38	33,093.00	9,626.08	32,997.70	140,082.48
Deficit	....	....	....	....	....
Total	33,840.38	33,093.00	9,626.08	32,997.70	140,082.48
LIABILITIES					
Debenture balance	....	4,352.74	....	3,612.17	16,537.10
Accounts payable	26.70	35.00	....	1,477.66	200.00
Bank overdraft	....	....	....	....	....
Other liabilities	266.00	30.00	5.00	65.00	632.55
Total liabilities	292.70	4,417.74	5.00	5,154.83	17,369.65
RESERVES					
For equity in H-E.P.C. systems	5,193.85	3,965.41	1,611.09	7,542.66	29,087.33
For depreciation	919.12	3,574.48	1,750.37	5,272.02	7,084.93
Other reserves	....	....	81.02	100.00	3,084.46
Total reserves	6,112.97	7,539.89	3,442.48	12,914.68	39,256.72
SURPLUS					
Debentures paid	14,000.00	13,313.37	6,000.00	12,387.83	53,462.90
Local sinking fund	....	....	....	....	....
Operating surplus	13,434.71	7,822.00	178.60	2,540.36	29,993.21
Total surplus	27,434.71	21,135.37	6,178.60	14,928.19	83,456.11
Total liabilities, reserves and surplus	33,840.38	33,093.00	9,626.08	32,997.70	140,082.48
Percentage of net debt to total assets	1.0	15.1	0.0	20.3	15.6

"A"—Continued

Hydro Municipalities as at December 31, 1937

Newcastle	Norwood	Omemee	Oshawa	Ottawa	Perth	Peterborough
675	753	579	24,692	141,903	4,184	23,072
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
....	....	....	60,887.33	481,693.79	5,224.67	75,202.75
....	457.53	360.32	1,468.29	730,943.43	5,779.83	101,578.00
13,615.94	23,334.51	11,700.81	206,936.76	795,730.92	47,234.88	258,557.29
....	....	....	....	181,038.13	....	....
3,749.81	3,879.18	2,980.81	55,527.48	348,506.04	24,220.65	109,374.87
3,370.56	4,822.00	2,567.46	108,841.65	274,897.32	22,404.81	102,070.69
688.22	1,886.92	701.06	16,248.86	123,847.51	4,355.48	57,484.22
....	....	....	....	....	....	....
....	4,030.18	1,575.92	23,058.51	41,158.24	7,300.99	73,871.76
....	....	....	....	....	....	....
....	2,447.51	....	8,831.65	....	23,586.94	29,771.74
21,424.53	40,857.83	19,886.38	481,800.53	2,977,815.38	140,108.25	807,911.32
....	4,150.68	5,148.31	26,593.61	81,938.26	13,851.61	....
....	12,000.00	....	....	160,000.00	54,477.76	....
1,058.90	485.06	83.81	95,213.97	78,174.38	5,773.00	44,636.10
....	....	....	11,369.56	20,188.46	7,791.27	11,889.63
....	....	....	....	478,072.65	....	324,649.97
332.88	4,454.82	....	365,542.72	120,418.90	53,301.70	216,071.30
....	....	....	130.35	....	....	....
22,816.31	61,948.39	25,118.50	980,650.74	3,916,608.03	275,303.59	1,405,158.32
....	....	....	....	....	....	....
22,816.31	61,948.39	25,118.50	980,650.74	3,916,608.03	275,303.59	1,405,158.32
13,565.29	23,002.39	478.19	173,369.77	593,379.09	44,127.77	527,920.00
....	28.92	....	52,534.58	36,228.27	415.99	43,358.79
....	....	....	....	....	....	14,591.88
....	349.27	113.48	23,524.34	2,625.20	2,533.34	185.00
13,565.29	23,380.58	591.67	249,428.69	632,232.56	47,077.10	586,055.67
332.88	4,454.82	....	365,542.72	120,418.90	53,301.70	216,071.30
7,360.64	11,828.90	8,214.31	68,778.29	1,152,053.25	47,338.20	111,267.02
....	....	....	17,634.94	173,708.85	900.00	1,224.63
7,693.52	16,283.72	8,214.31	451,955.95	1,446,181.00	101,539.90	328,562.95
434.71	14,097.61	11,521.81	136,630.23	386,620.91	64,272.23	....
....	....	....	....	478,072.65	....	324,649.97
1,122.79	8,186.48	4,790.71	142,635.87	973,500.91	62,414.36	165,889.73
1,557.50	22,284.09	16,312.52	279,266.10	1,838,194.47	126,686.59	490,539.70
22,816.31	61,948.39	25,118.50	980,650.74	3,916,608.03	275,303.59	1,405,158.32
60.3	40.6	2.4	40.6	4.6	21.2	30.2

STATEMENT

Balance Sheets of Electrical Departments of

EASTERN ONTARIO SYSTEM—Continued

Municipality	Picton	Port Hope	Prescott	Richmond	Russell
Population	3,481	4,564	2,942	408	P.V.
Assets	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	10,897.49	8,882.20	2,761.54	....	....
Substation equipment	2,004.66	....	....	....	....
Distribution system—overhead	40,076.38	50,743.40	39,625.49	6,632.53	7,872.06
Distribution system—underground	....	....	....	....	....
Line transformers	12,964.42	15,182.96	14,436.16	991.53	1,382.48
Meters	17,950.57	21,034.36	19,559.78	1,257.67	1,690.42
Street light equipment, regular	4,379.57	2,828.46	2,116.94	173.98	492.87
Street light equipment, ornamental	....	....	....	....	....
Miscellaneous construction expense	3,988.03	1,466.87	1,255.06	642.54	1,316.25
Steam or hydraulic plant	....	....	....	....	....
Old plant	....	....	....	....	....
Total plant	92,261.12	100,138.25	79,754.97	9,698.25	12,754.08
Bank and cash balance	4,742.71	13,421.32	2,424.62	936.87	845.48
Securities and investments	14,000.00	15,000.00	3,000.00	....	2,500.00
Accounts receivable	4,359.99	4,832.32	5,558.21	494.40	1,462.41
Inventories	5,079.48	2,177.52	531.66	....	....
Sinking fund on local debentures	....	....	....	....	....
Equity in H-E.P.C. systems	37,751.92	37,159.25	37,757.55	1,952.37	4,331.14
Other assets	2,245.24	....	....	....	....
Total assets	160,440.46	172,728.66	129,027.01	13,081.89	21,893.11
Deficit	....	....	....	....	....
Total	160,440.46	172,728.66	129,027.01	13,081.89	21,893.11
Liabilities					
Debenture balance	....	....	....	4,468.65	5,300.72
Accounts payable	....	49.01	1,101.10	0.84	....
Bank overdraft	....	....	....	....	....
Other liabilities	2,245.24	4,330.59	220.51	90.25	....
Total liabilities	2,245.24	4,379.60	1,321.61	4,559.74	5,300.72
Reserves					
For equity in H-E.P.C. systems	37,751.92	37,159.25	37,757.55	1,952.37	4,331.14
For depreciation	16,662.96	12,381.84	39,275.13	1,671.92	2,418.84
Other reserves	1,353.53	....	....	52.84	....
Total reserves	55,768.41	49,541.09	77,032.68	3,677.13	6,749.98
Surplus					
Debentures paid	5,730.32	79,000.00	12,170.99	2,031.35	4,699.28
Local sinking fund	....	....	....	....	....
Operating surplus	96,696.49	39,807.97	38,501.73	2,813.67	5,143.13
Total surplus	102,426.81	118,807.97	50,672.72	4,845.02	9,842.41
Total liabilities, reserves and surplus	160,440.46	172,728.66	129,027.01	13,081.89	21,893.11
Percentage of net debt to total assets	1.8	2.0	1.4	41.0	3.0

"A"—Continued

Hydro Municipalities as at December 31, 1937

Smiths Falls 7,623	Stirling 935	Trenton 6,440	Tweed 1,311	Warkworth P.V.	Wellington 872	Westport 720	Whitby 3,778
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
19,528.85	8,410.00	5,114.41	....	....	200.00	....	6,394.26
4,745.66	7,042.12	23,080.03	....	....	499.80	....	34,493.60
88,292.35	6,405.23	101,826.30	12,350.47	5,548.66	14,660.44	7,294.24	48,200.04
....	....	....	....	....	....	....	....
29,600.88	3,986.30	22,417.01	3,813.17	741.09	3,756.70	1,015.48	11,767.50
34,299.45	5,099.99	28,863.38	5,130.71	1,720.66	5,609.32	1,385.78	16,996.04
9,508.35	2,960.76	13,537.82	1,276.87	329.83	1,310.93	581.82	4,568.27
....	....	....	....	....	....	....	....
12,561.51	552.79	7,779.10	325.48	609.19	919.80	1,336.41	7,966.54
37,286.49	....	....	....	....	....	....	....
21,248.48	....	....	....	3,618.02	2,477.92	1,713.00	1,340.13
257,072.02	34,457.19	202,618.05	22,896.70	12,567.45	29,434.91	13,326.73	131,726.38
....	6,452.74	5,511.34	....	1,132.25	10.00	1,135.38	10,465.52
48,000.00	3,066.26	....	....	2,500.00	5,000.00	2,500.00	5,000.00
4,835.48	1,053.49	9,179.00	1,688.89	382.17	599.77	969.87	8,369.03
1,301.43	1,198.09	5,429.47	1,873.49	....	27.77	....	258.35
....	....	....	....	....	....	....	....
78,105.89	6,146.37	48,415.24	6,125.95	2,781.78	7,313.47	2,972.84	36,495.73
....	....	....	....	....	....	....	....
389,314.82	52,374.14	271,153.10	32,585.03	19,363.65	42,385.92	20,904.82	192,315.01
....	....	....	....	....	....	....	....
389,314.82	52,374.14	271,153.10	32,585.03	19,363.65	42,385.92	20,904.82	192,315.01
12,326.85	....	54,689.71	8,477.92	8,372.77	8,064.34	11,302.00	26,574.92
4,655.48	....	....	5.19	....	....	....	1,722.01
2,198.74	....	....	966.63	....	895.14	....	....
283.69	260.13	3,962.50	334.69	2.00	44.25	32.50	1,074.99
19,464.76	260.13	58,652.21	9,784.43	8,374.77	9,003.73	11,334.50	29,371.92
78,105.89	6,146.37	48,415.24	6,125.95	2,781.78	7,313.47	2,972.84	36,495.73
79,830.79	5,617.17	23,277.45	2,333.12	2,086.77	8,108.54	1,113.56	26,976.96
1,839.91	....	....	50.00	....	....	....	....
159,776.59	11,763.54	71,692.69	8,509.07	4,868.55	15,422.01	4,086.40	63,472.69
185,298.15	10,000.00	110,310.29	10,522.08	2,627.23	8,935.66	3,698.00	50,037.58
....	....	....	....	....	....	....	....
24,775.32	30,350.47	30,497.91	3,769.45	3,493.10	9,024.52	1,785.92	49,432.82
210,073.47	40,350.47	140,808.20	14,291.53	6,120.33	17,960.18	5,483.92	99,470.40
389,314.82	52,374.14	271,153.10	32,585.03	19,363.65	42,385.92	20,904.82	192,315.01
6.3	0.5	26.3	36.9	50.5	25.6	63.2	18.8

STATEMENT

Balance Sheets of Electrical Departments of

EASTERN ONTARIO SYSTEM—Concluded **THUNDER BAY**

Municipality Population	Williams-burg P.V.	Winchester 1,029	EASTERN ONTARIO SYSTEM SUMMARY	Fort William 24,231
ASSETS	$ c.	$ c.	$ c.	$ c.
Lands and buildings		299.85	1,076,979.94	48,927.62
Substation equipment			994,212.75	126,347.93
Distribution system—overhead	3,389.77	9,807.63	2,741,618.75	154,538.98
Distribution system—underground			367,424.31	
Line transformers	1,959.82	3,107.53	944,576.01	69,172.80
Meters	2,306.57	5,355.79	1,097,178.55	68,332.45
Street light equipment, regular	174.61	719.87	427,559.85	40,087.74
Street light equipment, ornamental				
Miscellaneous construction expense	531.25	698.09	316,838.08	6,376.14
Steam or hydraulic plant			100,142.49	
Old plant		1,100.00	125,923.88	293,762.46
Total plant	8,362.02	21,088.76	8,192,454.61	807,546.12
Bank and cash balance	2,604.47	3,726.71	319,768.47	27,781.61
Securities and investments	16,000.00	7,000.00	895,941.88	86,500.00
Accounts receivable	927.08	1,038.86	438,506.90	39,644.55
Inventories	17.28		114,267.70	10,305.94
Sinking fund on local debentures			822,400.11	104,171.64
Equity in H-E.P.C. systems	4,762.26	15,649.09	1,706,790.06	448,922.46
Other assets			3,375.59	
Total assets	32,673.11	48,503.42	12,493,505.32	1,524,872.32
Deficit			120.82	
Total	32,673.11	48,503.42	12,493,626.14	1,524,872.32
LIABILITIES				
Debenture balance		4,318.80	1,989,092.40	300,000.00
Accounts payable			177,339.22	25,134.58
Bank overdraft			20,957.47	
Other liabilities	479.87	10.00	68,617.72	22,792.13
Total liabilities	479.87	4,328.80	2,256,006.81	347,926.71
RESERVES				
For equity in H-E.P.C. systems	4,762.26	15,649.09	1,706,790.06	448,922.46
For depreciation	2,666.72	7,828.68	2,151,146.71	117,841.31
Other reserves	397.20		511,843.10	19,609.28
Total reserves	7,826.18	23,477.77	4,369,779.87	586,373.05
SURPLUS				
Debentures paid	2,750.00	6,331.20	2,154,847.15	367,650.00
Local sinking fund			822,400.11	104,171.64
Operating surplus	21,617.06	14,365.65	2,890,592.20	118,750.92
Total surplus	24,367.06	20,696.85	5,867,839.46	590,572.56
Total liabilities, reserves and surplus	32,673.11	48,503.42	12,493,626.14	1,524,872.32
Percentage of net debt to total assets	1.7	13.2	14.0	25.1

"A"—Concluded

Hydro Municipalities as at December 31, 1937

SYSTEM **NORTHERN ONTARIO PROPERTIES—SUDBURY DISTRICT**

Nipigon Twp.	Port Arthur 20,045	THUNDER BAY SYSTEM SUMMARY	Capreol 1,745	Sudbury 24,440	SUDBURY DISTRICT SUMMARY	ALL SYSTEMS GRAND SUMMARY
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
215.03	431,864.84	481,007.49	450.00	26,000.00	26,450.00	10,785,473.59
....	293,150.07	419,498.00	9,527.32	47,267.94	56,795.26	22,900,269.21
16,099.93	470,492.17	641,131.08	12,248.48	284,470.99	296,719.47	22,699,652.43
....	....	....	....	....	....	6,100,282.76
2,870.80	74,734.54	146,778.14	3,581.55	65,508.72	69,090.27	10,128,591.29
3,108.87	91,045.83	162,487.15	4,806.49	82,537.87	87,344.36	9,234,773.90
1,497.05	78,384.46	119,969.25	818.96	67,619.36	68,438.32	2,610,137.97
....	....	....	....	....	....	1,508,564.76
133.53	31,780.61	38,290.28	860.23	9,009.03	9,869.26	4,389,592.08
....	324,027.37	324,027.37	....	....	....	496,186.33
....	....	293,762.46	....	....	....	4,878,609.01
23,925.21	1,795,479.89	2,626,951.22	32,293.03	582,413.91	614,706.94	95,732,133.33
2,509.48	82,266.25	112,557.34	50.69	39,490.98	39,541.67	3,080,864.13
732.02	731,044.69	818,276.71	....	....	....	4,469,369.04
958.19	91,311.10	131,913.84	579.53	16,019.38	16,598.91	4,240,741.41
....	17,634.12	27,940.06	7.88	7,525.67	7,533.55	1,336,527.60
....	106,896.10	211,067.74	....	....	....	10,003,873.93
3,190.76	1,518,550.35	1,970,663.57	....	....	....	40,032,438.34
....	367.57	367.57	180.00	25,014.33	25,194.33	186,252.23
31,315.66	4,343,550.07	5,899,738.05	33,111.13	670,464.27	703,575.40	159,082,200.01
....	....	....	....	....	....	24,575.56
31,315.66	4,343,550.07	5,899,738.05	33,111.13	670,464.27	703,575.40	159,106,775.57
4,866.96	124,407.42	429,274.38	2,796.55	150,201.41	152,997.96	32,447,411.68
537.89	83,853.44	109,525.91	5,732.71	32,229.16	37,961.87	2,912,960.24
....	....	....	....	....	....	34,787.51
....	....	22,792.13	180.00	25,014.33	25,194.33	3,216,028.08
5,404.85	208,260.86	561,592.42	8,709.26	207,444.90	216,154.16	38,611,187.51
3,190.76	1,518,550.35	1,970,663.57	....	....	....	40,032,438.34
5,025.07	569,113.71	691,980.09	1,845 00	27,765.25	29,610.25	21,034,164.68
....	79,111.44	98,720.72	40.75	17,168.10	17,208.85	2,802,650.84
8,215.83	2,166,775.50	2,761,364.38	1,885.75	44,933.35	46,819.10	63,869,253.86
5,133.04	517,692.58	890,475.62	16,203.45	317,137.12	333,340.57	28,468,539.78
....	106,896.10	211,067.74	....	....	....	10,003,873.93
12,561.94	1,343,925.03	1,475,237.89	6,312.67	100,948.90	107,261.57	18,153,920.49
17,694.98	1,968,513.71	2,576,781.25	22,516.12	418,086.02	440,602.14	56,626,334.20
31,315.66	4,343,550.07	5,899,738.05	33,111.13	670,464.27	703,575.40	159,106,775.57
19.2	3.7	9.4	26.3	30.9	30.7	25.2

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM

Municipality	Acton	Agincourt	Ailsa Craig	Alvinston	Amherstburg
Population	1,993	P.V.	452	643	2,879
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	10,545.76	4,535.81	2,355.16	3,914.60	19,802.82
Commercial light service	4,551.65	1,208.65	1,381.48	2,583.25	6,564.65
Commercial power service	15,266.09	1,239.52	1,138.76	226.83	5,649.37
Municipal power	647.72	....	....	295.96	....
Street lighting	1,903.71	744.00	648.00	1,854.00	2,373.28
Merchandise	38.89	....	....	....	....
Miscellaneous	422.31	255.79	278.54	361.24	277.21
Total earnings	33,376.13	7,983.77	5,801.94	9,235.88	34,667.33
EXPENSES					
Power purchased	24,097.88	5,136.78	4,001.07	5,418.78	20,160.36
Substation operation	....	....	....	....	....
Substation maintenance	....	....	....	....	....
Distribution system, operation and maintenance	2,150.96	425.20	141.80	166.89	1,569.62
Line transformer maintenance	145.66	....	....	29.05	25.70
Meter maintenance	350.53	....	....	3.15	211.05
Consumers' premises expenses	227.66	....	....	....	804.05
Street lighting, operation and maintenance	578.85	50.73	61.94	48.27	348.57
Promotion of business	141.10	102.16	....	....	....
Billing and collecting	660.51	....	221.00	421.40	1,955.69
General office, salaries and expenses	372.47	545.04	71.56	58.61	1,573.94
Undistributed expenses	162.61	....	23.24	9.27	96.55
Truck operation and maintenance	308.95	....	....	....	338.27
Interest	....	97.81	....	482.01	969.56
Sinking fund and principal payments on debentures	....	728.65	....	1,308.76	1,000.00
Depreciation	1,416.00	425.00	477.00	686.00	2,169.00
Other reserves	....	....	....	....	....
Total operating costs and fixed charges	30,613.18	7,511.37	4,997.61	8,632.19	31,222.36
Net surplus	2,762.95	472.40	804.33	603.69	3,444.97
Net loss	....	....	....	....	....
NUMBER OF CONSUMERS					
Domestic service	491	150	132	165	638
Commercial light service	90	27	41	53	123
Power service	15	3	2	2	14
Total	596	180	175	220	775

"B"

Hydro Municipalities for Year Ended December 31, 1937

Ancaster Twp.	Arkona 415	Aylmer 1,995	Ayr 770	Baden P.V.	Beachville P.V.	Beamsville 1,208
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
9,060.25	2,812.40	10,215.49	5,329.48	3,645.57	2,898.59	12,161.30
1,779.90	1,871.38	7,337.06	1,712.11	1,832.80	680.13	
234.93	168.23	4,436.81	642.81	5,818.76	11,386.18	
293.08	....	949.21	....	....	....	
1,054.00	1,000.00	2,482.50	1,028.00	711.00	517.00	
....	....	....	....	....	....	....
....	0.36	1,294.89	6.70	37.68	209.32	....
12,422.16	5,852.37	26,715.96	8,719.10	12,045.81	15,691.22	*12,161.30
7,414.41	3,267.97	17,084.13	5,398.58	9,304.43	13,170.83	6,495.83
....	....	....	....	....	....	....
....	....	....	....	....	....	....
853.29	300.68	1,670.91	572.83	219.94	350.72	1,291.53
71.31	....	98.33	....	....	....	
264.55	33.05	384.84	29.60	123.25	114.49	
142.26	....	84.02	89.37	0.75	119.47	
143.32	35.83	284.82	86.40	102.09	84.77	
....	....	136.32	....	....	....	
859.14	163.87	819.89	373.33	406.57	421.61	
638.82	67.36	766.04	51.50	79.90	129.67	
52.52	4.50	61.81	13.16	16.88	....	
....	....	....	....	....	....	....
476.11	474.64	919.96	290.42	70.41	86.37	858.33
367.50	697.72	1,587.96	424.99	254.85	271.42	....
970.00	364.00	1,588.00	633.00	483.00	695.00	....
....	....	....	....	....	....	....
12,253.23	5,409.62	25,487.03	7,963.18	11,062.07	15,444.35	*8,645.69
168.93	442.75	1,228.93	755.92	983.74	246.87	3,515.61
....	....	....	....	....	....	....
289	103	671	213	147	139	340
39	33	153	45	40	23	73
6	2	11	5	2	4	8
334	138	835	263	189	166	421

*Eight months operation.

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Belle River	Blenheim	Blyth	Bolton	Bothwell
Population	748	1,755	624	569	642
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	4,017.94	8,366.52	3,571.20	4,211.35	2,509.90
Commercial light service	1,923.25	6,489.23	1,779.49	1,197.17	1,331.58
Commercial power service	62.37	2,523.06	463.20	1,928.61	641.49
Municipal power	971.90	1,659.80	....	59.11	138.35
Street lighting	963.00	2,518.50	1,580.00	1,058.52	1,293.00
Merchandise	....	....	....	....	7.78
Miscellaneous	31.25	177.10	14.20	88.79	584.61
Total earnings	7,969.71	21,734.21	7,408.09	8,543.55	6,506.71
EXPENSES					
Power purchased	4,481.92	12,665.21	4,222.64	4,496.37	4,317.74
Substation operation	....	....	....	....	....
Substation maintenance	....	....	....	....	....
Distribution system, operation and maintenance	538.55	800.75	219.84	441.21	195.16
Line transformer maintenance	149.21	80.22	....	....	....
Meter maintenance	111.62	332.80	68.69	97.14	2.66
Consumers' premises expenses	5.99	403.12	....	73.18	....
Street lighting, operation and maintenance	145.32	432.90	96.32	124.97	81.95
Promotion of business	....	5.73	....	126.74	....
Billing and collecting	407.07	1,031.51	233.86	....	209.18
General office, salaries and expenses	408.77	1,471.84	31.60	471.04	98.39
Undistributed expenses	11.10	47.96	60.28	....	2.24
Truck operation and maintenance	....	....	....	....	....
Interest	....	419.75	301.27	218.75	148.25
Sinking fund and principal payments on debentures	....	602.00	981.46	656.30	215.00
Depreciation	800.00	1,582.00	511.00	634.00	517.00
Other reserves	....	86.89	....	....	....
Total operating costs and fixed charges	7,059.55	19,962.68	6,726.96	7,339.70	5,787.57
Net surplus	910.16	1,771.53	681.13	1,203.85	719.14
Net loss	....	....	....	....	....
NUMBER OF CONSUMERS					
Domestic service	227	529	171	162	176
Commercial light service	45	125	55	40	52
Power service	2	11	3	10	7
Total	274	665	229	212	235

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1937

Brampton 5,568	Brantford 31,232	Brantford Twp.	Bridgeport P.V.	Brigden P.V.	Brussels 787	Burford P.V.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
38,658.02	171,423.00	21,288.76	4,052.99	2,315.99	4,920.44	4,031.07
18,320.83	71,003.69	4,292.84	866.81	2,041.32	2,744.06	1,090.39
18,331.54	212,732.66	3,108.53	270.94	674.99	742.66	967.17
1,698.57	23,395.77	....	....	....	....	....
5,473.00	33,268.31	4,072.75	723.00	800.00	1,296.00	670.00
....	....	....	....	....	....	....
780.89	5,705.44	778.33	....	179.82	138.51	232.79
83,262.85	517,528.87	33,541.21	5,913.74	6,012.12	9,841.67	6,991.42
65,581.96	362,806.49	17,711.43	3,458.26	3,977.17	5,406.31	4,265.01
....	7,778.36	....	....	....	....	....
168.50	1,121.08	....	....	....	....	....
2,144.95	17,395.46	872.79	165.43	292.10	317.20	211.27
292.71	272.12	74.93	....	4.50	....	....
855.36	4,888.13	91.94	32.00	4.25	201.35	33.28
240.21	3,691.39	639.78	41.84	....	....	123.94
615.58	5,138.56	663.24	122.40	68.75	129.52	119.96
....	92.00	....	....	....	....	....
1,830.72	10,862.18	1,695.64	313.81	280.13	....	433.61
1,455.41	9,686.00	999.68	32.14	45.82	649.63	167.76
172.43	2,742.36	12.86	2.43	8.79	3.27	6.88
244.63	2,117.64	....	....	....	....	....
312.06	6,107.32	675.55	492.71	10.64	549.76	....
2,173.68	15,750.00	4,108.43	703.74	....	1,208.03	....
5,082.00	28,837.00	2,827.00	588.00	408.00	667.00	534.00
100.00	3,000.00	40.00	....	....	....	....
81,270.20	482,286.09	30,413.27	5,952.76	5,100.15	9,132.07	5,895.71
1,992.65	35,242.78	3,127.94	....	911.97	709.60	1,095.71
....	....	....	39.02	....	....	....
1,435	7,684	910	147	112	232	195
241	1,116	49	18	45	66	29
51	217	5	3	5	3	2
1,727	9,017	964	168	162	301	226

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Burgessville	Caledonia	Campbellville	Cayuga	Chatham
Population	P.V.	1,370	P.V.	674	15,910
EARNINGS					
Domestic service	1,428.99	5,795.42	1,415.96	3,572.78	84,215.59
Commercial light service	582.14	3,893.27	472.38	3,171.71	76,583.60
Commercial power service	222.02	1,645.56	....	1,018.45	64,250.37
Municipal power	....	....	....	....	6,250.04
Street lighting	312.00	1,755.96	480.00	1,458.00	19,270.83
Merchandise	....	....	....	65.77	686.85
Miscellaneous	0.51	75.50	58.13	69.19	2,522.82
Total earnings	2,545.66	13,165.71	2,426.47	9,355.90	253,780.10
EXPENSES					
Power purchased	1,788.56	7,713.48	1,497.64	4,407.93	133,214.50
Substation operation	....	....	....	....	7,233.02
Substation maintenance	....	....	....	....	1,860.25
Distribution system, operation and maintenance	161.73	1,164.88	105.86	402.56	5,140.31
Line transformer maintenance	27.23	157.81	....	3.90	627.10
Meter maintenance	2.40	311.53	....	127.34	5,710.03
Consumers' premises expenses	....	....	....	....	2,831.46
Street lighting, operation and maintenance	16.21	237.30	42.38	190.62	4,343.21
Promotion of business	....	....	....	....	2,062.52
Billing and collecting	109.84	701.82	....	577.79	9,603.45
General office, salaries and expenses	36.93	187.65	84.49	436.39	14,149.91
Undistributed expenses	0.77	91.74	....	62.77	3,557.42
Truck operation and maintenance	....	219.88	....	....	1,792.13
Interest	....	58.19	163.54	583.08	10,282.43
Sinking fund and principal payments on debentures	....	303.53	324.70	1,090.51	18,030.46
Depreciation	229.00	761.00	136.00	626.00	17,797.00
Other reserves	....	....	....	50.00	....
Total operating costs and fixed charges	2,372.67	11,908.81	2,354.61	8,558.89	238,235.20
Net surplus	172.99	1,256.90	71.86	797.01	15,544.90
Net loss	....	....	....	....	....
NUMBER OF CONSUMERS					
Domestic service	56	390	46	149	3,959
Commercial light service	15	91	9	56	763
Power service	2	6	....	6	104
Total	73	487	55	211	4,826

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1937

Chippawa 1,187	Clifford 441	Clinton 1,865	Comber P.V.	Cottam P.V.	Courtright 286	Dashwood P.V.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
7,586.29	2,333.26	12,074.60	2,109.09	2,458.40	1,449.37	1,452.39
1,848.59	1,780.85	7,238.45	2,192.56	1,393.60	1,045.85	978.35
43.73	405.45	3,933.75	3,180.78	317.43	....	1,096.72
1,066.13	....	1,042.77	....	....	696.09	....
1,178.11	823.62	2,101.33	662.00	480.00	774.00	451.00
....	....	353.82	....	....	....	....
130.33	21.63	1,164.47	182.54	139.09	45.56	94.01
11,853.18	5,364.81	27,909.19	8,326.97	4,788.52	4,010.97	4,072.47
5,742.97	3,360.63	15,705.15	5,420.14	2,351.66	2,461.10	3,008.42
....	....	....	....	....	....	....
....	....	100.00	....	....	....	....
807.89	97.33	687.88	617.76	58.84	56.36	108.96
78.32	....	....	....	....	....	14.13
240.25	25.85	244.42	146.99	22.11	....	1.35
299.15	38.66	104.00	....	....	....	....
407.36	55.59	268.32	94.89	26.00	52.00	34.56
....	....	....	....	....	....	....
383.57	314.46	848.15	211.91	....	149.69	123.44
651.30	62.51	1,962.14	379.75	421.07	20.41	38.65
116.57	....	106.99	18.77	....	1.32	6.33
....	....	123.73	....	....	....	....
249.17	340.46	2,062.42	48.04	312.23	97.18	96.98
962.12	209.97	972.49	183.00	440.91	749.22	136.96
1,001.00	324.00	2,249.00	506.00	412.00	238.00	250.00
....	....	....	....	....	....	....
10,939.67	4,829.46	25,434.69	7,627.25	4,044.82	3,825.28	3,819.78
913.51	535.35	2,474.50	699.72	743.70	185.59	252.69
....	....	....	....	....	....	....
330	113	542	101	107	66	80
46	40	130	49	29	26	30
2	1	16	3	1	1	2
378	154	688	153	137	93	112

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Delaware	Dorchester	Drayton	Dresden	Drumbo
Population	P.V.	P.V.	566	1,468	P.V.
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	1,515.27	2,320.57	3,169.29	6,399.28	1,993.89
Commercial light service	627.41	864.04	2,091.01	5,294.68	827.87
Commercial power service		261.87	956.93	3,523.79	547.67
Municipal power				148.09	
Street lighting	264.00	672.55	960.00	1,876.32	507.00
Merchandise					
Miscellaneous	116.82	123.48	223.76	1,739.38	63.85
Total earnings	2,523.50	4,242.51	7,400.99	18,981.54	3,940.28
EXPENSES					
Power purchased	1,615.73	2,901.32	4,927.07	10,945.02	2,177.40
Substation operation					
Substation maintenance					
Distribution system, operation and maintenance	31.17	66.81	227.10	2,100.28	207.08
Line transformer maintenance		2.49			
Meter maintenance		112.42	61.75	198.51	15.60
Consumers' premises expenses				31.55	
Street lighting, operation and maintenance	8.10	24.38	125.01	257.42	87.90
Promotion of business	67.37	20.00	31.10		
Billing and collecting	148.88	236.89		768.19	221.57
General office, salaries and expenses	33.92	42.64	356.52	855.47	98.72
Undistributed expenses				78.16	1.38
Truck operation and maintenance				263.67	
Interest	84.84	99.44	329.98		94.60
Sinking fund and principal payments on debentures	176.15	180.28	363.57		198.13
Depreciation	176.00	406.00	605.00	917.00	320.00
Other reserves					
Total operating costs and fixed charges	2,342.16	4,092.67	7,027.10	16,415.27	3,422.38
Net surplus	181.34	149.84	373.89	2,566.27	517.90
Net loss					
NUMBER OF CONSUMERS					
Domestic service	59	141	161	388	88
Commercial light service	17	29	67	118	27
Power service		2	5	10	1
Total	76	172	233	516	116

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1937

Dublin P.V.	Dundas 4,757	Dunnville 4,001	Dutton 776	East York Twp.	Elmira 2,063	Elora 1,138
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,482.23	21,741.85	12,982.71	3,146.13	184,073.34	15,875.30	7,406.09
795.62	11,483.73	13,450.21	2,485.81	27,377.69	7,180.66	3,974.83
612.35	23,727.22	10,384.00	3,081.68	35,885.84	5,493.03	2,598.27
....	365.91	2,510.70	....	5,699.70	835.75	....
700.00	5,518.00	3,679.65	1,021.44	19,632.37	1,834.00	1,687.92
....	....	....	....	....	....	33.52
....	207.30	645.67	206.83	706.35	901.60	408.22
3,590.20	63,044.01	43,652.94	9,941.89	273,375.29	32,120.34	16,108.85
2,094.00	41,637.40	25,398.50	7,129.84	164,790.40	18,550.16	9,586.24
....	498.49	458.38	....	37.12	....	....
....	....	....	....	....	....	....
100.49	3,964.35	2,294.66	350.30	7,908.66	1,245.05	2,126.34
....	145.24	89.25	20.58	1,053.83	133.69	34.39
....	777.78	737.80	99.80	3,929.77	....	151.83
....	80.95	....	13.79	3,590.10	864.47	....
66.95	1,061.42	888.71	180.62	2,426.49	99.56	222.77
....	....	163.46	2.77	122.30	34.86	57.50
98.85	1,198.66	823.55	330.30	13,900.04	664.74	765.55
85.32	1,602.88	1,430.08	150.25	12,182.65	841.07	521.52
9.56	154.68	63.40	12.67	2,111.37	320.71	186.82
....	934.62	241.29	....	....	336.64	114.32
19.72	965.29	2,281.21	....	12,501.34	1,057.83	86.96
....	2,560.87	3,118.90	....	17,277.67	1,955.37	643.56
320.00	4,586.00	3,576.00	632.00	14,485.33	2,243.00	1,205.00
....	....	....	....	500.00	....	....
2,794.89	60,168.63	41,565.19	8,922.92	256,817.07	28,347.15	15,702.80
795.31	2,875.38	2,087.75	1,018.97	16,558.22	3,773.19	406.05
....	....	....	....	....	....	....
.. 50	1,224	868	212	9,200	519	326
19	184	214	65	391	117	73
2	36	25	9	37	21	2
71	1,444	1,107	286	9,628	657	401

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Embro	Erieau	Erie Beach	Essex
Population	449	238	26	1,798
Earnings	$ c.	$ c.	$ c.	$ c.
Domestic service	2,710.37	3,531.94	1,625.66	8,073.44
Commercial light service	1,441.98	1,351.69	336.77	6,719.51
Commercial power service	1,083.73	507.07	....	6,347.86
Municipal power	....	....	....	1,735.52
Street lighting	672.00	394.50	....	2,074.08
Merchandise	....	....	....	....
Miscellaneous	86.60	24.43	18.97	540.12
Total earnings	5,994.68	5,809.63	1,981.40	25,490.53
Expenses				
Power purchased	3,668.58	3,497.50	1,017.87	14,107.43
Substation operation	....	....	....	....
Substation maintenance	....	....	....	....
Distribution system, operation and maintenance	189.18	315.59	161.84	842.32
Line transformer maintenance	....	25.45	43.11	91.79
Meter maintenance	14.40	134.04	148.10	339.96
Consumers' premises expenses	58.11	288.64	9.63	57.63
Street lighting, operation and maintenance	105.68	64.14	....	297.92
Promotion of business	60.00	....	....	43.00
Billing and collecting	253.77	475.46	187.55	1,208.66
General office, salaries and expenses	97.16	203.74	7.02	1,248.98
Undistributed expenses	....	2.01	0.63	172.21
Truck operation and maintenance	....	....	....	313.35
Interest	104.87	208.30	127.91	590.56
Sinking fund and principal payments on debentures	549.02	410.26	160.62	958.11
Depreciation	550.00	412.00	94.00	1,999.00
Other reserves	....	26.95	....	65.00
Total operating costs and fixed charges	5,650.77	6,064.08	1,958.28	22,335.92
Net surplus	343.91	....	23.12	3,154.61
Net loss	....	254.45	....	....
Number of Consumers				
Domestic service	111	177	79	459
Commercial light service	46	14	03	118
Power service	1	2	....	19
Total	158	193	82	596

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1937

Etobicoke Twp.	Exeter	Fergus	Fonthill	Forest	Galt	Georgetown
	1,629	2,785	803	1,586	14,119	2,189
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
128,521.51	10,529.15	16,477.22	4,880.91	10,694.50	87,306.24	16,686.99
19,353.99	5,422.31	7,369.46	1,351.15	5,520.10	41,160.25	7,037.67
20,582.08	2,883.70	14,584.79	317.30	3,520.82	100,665.80	23,487.72
4,013.60	493.86	608.92	219.27	900.39	5,498.27	543.13
13,607.97	2,711.55	2,719.37	1,065.00	2,321.00	15,660.50	2,650.89
....	304.33	8.20	....	602.19	....	....
76.00	875.75	60.75	....	782.94	3,966.75	641.47
186,155.15	23,220.65	41,828.71	7,833.63	24,341.94	254,257.81	51,047.87
110,611.15	14,250.23	31,520.05	3,191.40	14,387.97	164,663.31	36,806.79
....	....	....	....	....	3,731.72	....
....	....	....	....	....	106.19	....
7,024.46	420.01	1,076.78	481.74	1,659.40	3,319.87	1,980.65
435.73	....	167.83	7.50	....	207.96	302.64
1,369.27	58.06	365.10	92.81	271.28	1,863.53	669.40
3,750.11	106.65	....	18.19	529.93	721.64	308.92
732.94	303.69	632.94	77.11	338.64	2,309.03	568.02
....	....	393.42	....	7.95	2,122.79	....
5,905.26	759.10	801.03	432.94	816.18	4,495.74	1,626.35
4,500.28	1,801.01	784.63	106.51	1,965.46	6,048.51	1,120.03
1,994.37	93.13	185.52	....	147.48	2,054.81	131.37
1,218.87	257.34	335.93	....	207.20	431.04	417.73
8,531.91	259.65	783.48	786.54	432.60	7,605.85	486.67
14,276.65	1,167.46	1,280.32	1,259.45	945.98	20,644.97	966.31
12,709.00	1,641.00	1,812.00	524.00	1,573.00	24,835.00	2,288.00
....	....	....	....	....	....	....
173,060.00	21,117.33	40,139.03	6,978.19	23,283.07	245,161.96	47,672.88
13,095.15	2,103.32	1,689.68	855.44	1,058.87	9,095.85	3,374.99
....	....	....	....	....	....	....
3,975	458	658	218	458	3,715	733
244	117	110	33	118	495	129
24	9	14	4	21	109	28
4,243	584	782	255	597	4,319	890

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Glencoe	Goderich	Granton	Guelph	Hagersville
Population	778	4,336	P.V.	21,455	1,345
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	5,027.38	31,779.40	1,824.58	105,593.83	5,378.01
Commercial light service	3,623.31	16,415.78	1,015.75	54,727.29	5,076.34
Commercial power service	1,789.12	9,944.41	395.85	120,365.16	14,088.48
Municipal power	1,747.73	2,953.70	....	12,999.94	....
Street lighting	1,962.00	4,001.84	370.00	18,867.05	2,050.00
Merchandise	....	....	....	578.69	....
Miscellaneous	295.86	395.82	154.58	1,035.86	735.96
Total earnings	14,445.40	65,490.95	3,760.76	314,167.82	27,328.79
EXPENSES					
Power purchased	8,427.62	40,044.46	2,345.52	216,973.24	18,961.57
Substation operation	....	1,973.48	....	3,747.16	....
Substation maintenance	....	....	....	....	....
Distribution system, operation and maintenance	346.68	2,612.16	170.21	7,988.30	2,079.13
Line transformer maintenance	....	239.97	....	1,598.54	49.15
Meter maintenance	70.84	537.35	20.74	3,663.54	282.86
Consumers' premises expenses	60.89	298.81	....	1,466.94	....
Street lighting, operation and maintenance	215.02	597.01	88.31	6,137.00	385.25
Promotion of business	80.90	54.79	....	1,538.00	....
Billing and collecting	430.23	1,706.08	321.40	5,866.49	704.68
General office, salaries and expenses	499.58	1,760.03	75.83	10,555.89	647.01
Undistributed expenses	138.15	148.53	6.41	1,547.23	62.53
Truck operation and maintenance	....	213.35	....	2,218.55	293.15
Interest	290.39	2,210.07	103.81	250.00	112.98
Sinking fund and principal payments on debentures	1,215.85	2,722.43	150.46	105.10	277.39
Depreciation	1,107.00	6,051.00	266.00	18,496.00	1,239.00
Other reserves	154.58	....	60.00	192.05	....
Total operating costs and fixed charges	13,037.73	61,169.52	3,608.69	282,344.03	25,094.70
Net surplus	1,407.67	4,321.43	152.07	31,823.79	2,234.09
Net loss	....	....	....	....	....
NUMBER OF CONSUMERS					
Domestic service	215	1,211	83	5,226	350
Commercial light service	82	238	34	784	114
Power service	6	20	1	133	14
Total	303	1,469	118	6,143	478

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1937

Hamilton 154,020	Harriston 1,273	Harrow 918	Hensall 719	Hespeler 2,861	Highgate 327	Humberstone 2,563
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
857,215.70	6,982.79	8,241.52	3,858.52	14,363.80	1,645.67	9,755.55
406,941.57	4,685.95	4,283.21	2,095.92	5,776.09	875.56	3,397.69
1,830,303.56	5,034.79	4,227.28	2,733.90	39,338.89	1,036.43	4,001.56
68,337.08	405.01	....	....	1,143.49	33.19	....
123,775.35	1,551.00	1,319.67	1,006.00	3,107.00	567.00	1,481.79
....	....	194.95	....	....	....	....
70,120.18	74.15	45.18	351.41	682.06	147.36	340.84
3,356,693.44	18,733.69	18,311.81	10,045.75	64,411.33	4,305.21	18,977.43
2,264,785.63	11,557.16	13,076.78	6,598.53	47,263.64	2,709.84	10,246.62
59,111.76	....	....	....	455.69	....	....
9,149.17	....	....	....	....	....	....
36,606.86	1,507.06	320.78	686.36	2,897.62	165.89	1,534.06
4,218.30	....	0.90	....	79.83	....	....
26,901.17	65.90	227.78	51.28	374.26	4.21	629.25
24,634.94	104.64	....	....	249.24	....	....
12,562.42	284.73	207.12	104.42	475.16	77.57	127.52
18,455.73	43.00	271.62	....	....	....	....
59,706.30	792.45	495.86	266.32	988.20	312.54	648.62
50,772.80	341.44	380.52	506.32	1,323.54	149.62	314.60
43,458.84	37.07	39.00	48.26	513.26	11.38	9.05
....	59.01	....	....	316.13	....	157.74
152,713.88	413.89	412.17	312.96	1,524.51	....	900.00
278,543.78	622.75	656.40	549.47	2,207.75	....	1,600.00
139,557.52	1,140.00	872.00	732.00	2,822.00	391.00	1,069.00
35,029.00	....	84.00	....	100.00	....	....
3,216,208.10	16,969.10	17,044.93	9,855.92	61,590.83	3,822.05	17,236.46
140,485.34	1,764.59	1,266.88	189.83	2,820.50	483.16	1,740.97
....	....	....	....	....	....	....
38,510	350	269	185	721	98	595
5,068	105	76	60	100	35	67
1,251	13	5	13	29	6	5
44,829	468	350	258	850	139	667

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Ingersoll	Jarvis	Kingsville	Kitchener	Lambeth
Population	5,139	504	2,282	32,650	P.V.
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	30,765.04	2,517.07	13,987.44	193,802.89	3,123.19
Commercial light service	16,358.91	1,793.25	6,721.15	112,324.46	1,220.74
Commercial power service	28,035.93	3,580.21	3,143.53	273,945.19	....
Municipal power	1,394.94	....	1,185.45	17,884.37	479.10
Street lighting	4,667.34	821.33	2,832.00	33,251.04	722.66
Merchandise	....	....	....	....	....
Miscellaneous	761.92	96.21	1,293.30	3,495.74	64.58
Total earnings	81,984.08	8,808.07	29,162.87	634,703.69	5,610.27
EXPENSES					
Power purchased	57,824.09	6,036.70	15,289.30	463,631.75	3,497.55
Substation operation	404.19	....	....	6,283.26	....
Substation maintenance	....	....	....	1,561.66	....
Distribution system, operation and maintenance	3,782.68	159.12	1,341.24	9,553.86	72.44
Line transformer maintenance	299.62	14.10	97.44	636.29	....
Meter maintenance	927.41	179.97	619.78	6,041.83	13.35
Consumers' premises expenses	318.93	....	310.35	7,186.54	....
Street lighting, operation and maintenance	603.75	75.49	587.51	7,590.27	29.60
Promotion of business	560.79	....	....	1,950.69	65.81
Billing and collecting	1,477.82	493.80	1,684.19	14,145.06	304.69
General office, salaries and expenses	4,448.83	51.47	1,076.74	10,907.24	45.62
Undistributed expenses	85.78	8.55	379.29	5,050.15	1.91
Truck operation and maintenance	390.06	....	271.79	3,612.15	....
Interest	3,441.81	275.76	1,623.35	8,619.00	2.00
Sinking fund and principal payments on debentures	....	604.00	852.64	18,005.24	....
Depreciation	4,184.00	463.00	2,168.00	35,515.00	400.00
Other reserves	....	....	119.26	....	....
Total operating costs and fixed charges	78,749.76	8,361.96	26,420.88	600,289.99	4,432.97
Net surplus	3,234.32	446.11	2,741.99	34,413.70	1,177.30
Net loss	....	....	....	....	....
NUMBER OF CONSUMERS					
Domestic service	1,392	132	603	7,464	123
Commercial light service	237	43	150	1,028	25
Power service	43	4	14	242	2
Total	1,672	179	767	8,734	150

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1937

La Salle 782	Leamington 5,340	Listowel 2,819	London 73,091	London Twp.	Long Branch 4,099	Lucan 613
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
5,947.02	27,670.88	16,676.74	524,410.64	11,640.13	26,199.02	4,228.76
1,459.90	15,459.66	9,938.00	197,009.81	2,198.97	6,077.43	1,797.37
2,384.31	19,955.58	12,478.07	347,345.16	1,589.17	1,623.73	1,621.53
....	2,162.08	1,062.43	77,962.94	....	1,083.48	....
330.00	5,414.58	3,938.83	56,556.93	944.50	3,945.56	994.02
....	....	42.31	....	....	....	....
94.73	2,034.27	757.89	24,036.57	321.41	30.00	310.32
10,215.96	72,697.05	44,894.27	1,227,322.05	16,694.18	38,959.22	8,952.00
6,343.75	43,026.43	30,070.38	764,721.90	11,880.55	19,710.47	5,190.84
....	....	78.54	19,015.28	....	....	....
....	....	....	12,097.59	....	....	....
....	....	....	....	....	....	....
797.99	2,047.76	1,787.80	23,627.39	793.66	2,542.55	757.51
....	2.82	349.84	3,142.54	....	40.32	81.20
36.77	704.39	256.00	12,229.87	185.08	628.31	31.49
63.78	610.99	132.17	18,066.28	687.35	248.71	....
22.00	1,265.06	845.27	9,300.11	235.88	318.38	81.81
....	118.41	184.95	31,836.83	....	....	....
364.96	1,875.69	909.80	29,611.80	679.11	2,132.84	656.19
405.68	2,930.32	1,785.28	42,170.49	439.46	2,283.32	333.17
81.85	562.14	106.71	12,721.04	5.75	692.22	42.73
....	338.02	138.37	6,459.22	....	....	....
557.64	1,564.50	182.88	26,773.87	337.63	722.97	174.17
799.87	2,625.63	950.52	74,945.19	626.81	2,350.89	314.51
949.00	3,824.00	3,058.00	107,582.34	889.00	2,495.00	746.00
48.95	....	....	3,264.39	....	....	....
10,472.24	61,496.16	40,836.51	1,197,566.13	16,760.28	34,165.98	8,409.62
....	11,200.89	4,057.76	29,755.92	....	4,793.24	542.38
256.28	....	....	....	66.10	....	....
203	1,392	747	17,862	386	1,216	175
18	257	151	2,094	23	97	45
4	28	21	442	4	5	7
225	1,677	919	20,398	413	1,318	227

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Lynden	Markham	Merlin	Merritton	Milton
Population	P.V.	1,112	P.V.	2,543	1,785
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	2,131.47	7,004.98	2,174.74	12,406.14	11,479.33
Commercial light service	791.09	2,914.08	1,821.86	2,698.68	5,417.52
Commercial power service	727.50	2,188.52	124.89	110,483.89	18,067.59
Municipal power		348.13			
Street lighting	440.00	1,344.00	652.50	3,342.83	2,031.08
Merchandise					522.60
Miscellaneous		316.79	315.32		760.72
Total earnings	4,090.06	14,116.50	5,089.31	128,931.54	38,278.84
EXPENSES					
Power purchased	2,547.95	9,608.50	2,535.28	107,545.24	27,658.09
Substation operation				276.77	
Substation maintenance					241.05
Distribution system, operation and maintenance	55.37	764.67	157.28	2,136.35	1,893.37
Line transformer maintenance				117.23	265.66
Meter maintenance	3.60	32.00	31.12	697.17	273.99
Consumers' premises expenses		130.51		9.60	
Street lighting, operation and maintenance	25.23	135.47	76.52	714.76	577.06
Promotion of business		20.00			195.09
Billing and collecting		897.78	203.79	1,134.85	1,048.67
General office, salaries and expenses	207.16	216.54	234.02	1,789.02	1,500.58
Undistributed expenses			1.88	166.24	115.57
Truck operation and maintenance		212.61		235.83	603.64
Interest	110.74		328.92	1,206.73	371.50
Sinking fund and principal payments on debentures	191.02		848.08	1,862.79	867.04
Depreciation	311.00	862.00	424.00	2,899.00	2,138.00
Other reserves		50.00			
Total operating costs and fixed charges	3,452.07	12,930.08	4,840.89	120,791.58	37,749.31
Net surplus	637.99	1,186.42	248.42	8,139.96	529.53
Net loss					
NUMBER OF CONSUMERS					
Domestic service	88	294	110	660	471
Commercial light service	16	66	46	66	102
Power service	2	9	1	11	14
Total	106	369	157	737	587

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1937

Milverton 987	Mimico 6,876	Mitchell 1,577	Moorefield P.V.	Mount Brydges P.V.	Newbury 276	New Hamburg 1,464
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
4,706.91	55,221.42	11,433.69	1,149.27	2,771.38	1,373.49	9,264.20
3,321.68	10,331.68	5,330.08	875.06	1,085.68	726.74	4,456.08
2,709.54	3,744.16	3,475.12	631.96	1,276.43	655.44	5,607.18
527.88	7,676.52	639.17	....	....	....	....
1,015.50	7,223.14	2,120.25	350.00	547.00	705.00	2,217.00
....	....	1,842.21	....	....	....	186.91
77.75	....	1,328.58	16.73	287.39	26.51	284.87
12,359.26	84,196.92	26,169.10	3,023.02	5,967.88	3,487.18	22,016.24
8,616.82	49,714.47	13,499.35	2,179.51	3,735.91	1,694.12	13,123.75
....	....	....	....	....	....	....
....	....	17.41	....	....	....	210.83
766.31	7,936.76	786.99	46.45	222.28	87.56	703.24
....	297.60	220.36	....	....	....	23.86
2.40	1,696.24	370.80	14.60	22.80	18.00	376.23
49.22	721.74	300.24	....	....	....	176.27
79.22	1,650.96	413.82	27.73	51.46	44.56	285.93
....	....	....	....	71.48	....	....
662.40	1,937.49	1,019.16	....	190.03	....	668.36
400.90	1,888.63	1,839.39	121.40	127.63	135.20	1,256.87
22.93	248.58	473.27	....	....	3.65	166.49
....	442.49	295.84	....	....	....	350.57
....	3,763.41	....	21.91	101.22	174.00	207.59
....	6,206.76	....	363.50	189.20	600.00	963.33
765.00	5,968.00	3,533.00	218.00	372.00	334.00	1,422.00
....	....	....	....	....	....	....
11,365.20	82,473.13	22,769.63	2,993.10	5,084.01	3,091.09	19,935.32
994.06	1,723.79	3,399.47	29.92	883.87	396.09	2,080.92
....	....	....	....	....	....	....
240	1,786	449	60	149	69	346
78	142	120	24	36	22	95
7	20	23	1	4	2	13
325	1,948	592	85	189	93	454

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality Population	New Toronto 6,848	Niagara Falls 18,747	Niagara-on-the-Lake 1,563	North York Twp.
Earnings	$ c.	$ c.	$ c.	$ c.
Domestic service	35,622.58	138,864.47	14,688.37	126,532.62
Commercial light service	16,386.04	58,686.88	4,609.71	20,123.64
Commercial power service	129,977.15	67,348.77	790.98	30,252.25
Municipal power	11,647.17	17,683.17	1,582.04	4,703.90
Street lighting	7,329.96	27,358.84	2,910.52	3,953.57
Merchandise	....	....	1,127.23	....
Miscellaneous	377.90	1,197.07	352.57	1,874.61
Total earnings	201,340.80	311,139.20	26,061.42	187,440.59
Expenses				
Power purchased	166,144.03	170,248.70	12,647.31	94,921.69
Substation operation	....	9,896.27	....	....
Substation maintenance	....	....	....	....
Distribution system, operation and maintenance	5,858.07	6,320.37	1,872.17	10,471.43
Line transformer maintenance	281.01	277.84	....	548.85
Meter maintenance	1,894.85	6,017.61	1.75	1,589.37
Consumers' premises expenses	88.13	777.87	....	2,804.12
Street lighting, operation and maintenance	1,338.23	2,434.26	1,112.99	740.81
Promotion of business	....	....	3.80	....
Billing and collecting	2,949.39	8,379.52	1,346.19	5,183.17
General office, salaries and expenses	6,277.27	9,285.68	1,152.50	5,717.17
Undistributed expenses	1,133.99	4,516.45	152.33	1,416.24
Truck operation and maintenance	700.18	1,305.42	312.28	2,936.77
Interest	150.57	15,005.31	1,014.47	17,828.46
Sinking fund and principal payments on debentures	369.85	30,462.75	1,182.29	19,645.00
Depreciation	5,987.00	26,240.00	1,860.00	13,933.00
Other reserves	....	....	....	....
Total operating costs and fixed charges	193,172.57	291,168.05	22,658.08	177,736.08
Net surplus	8,168.23	19,971.15	3,403.34	9,704.51
Net loss	....	....	....	....
Number of Consumers				
Domestic service	1,698	4,442	508	3,650
Commercial light service	197	692	84	274
Power service	32	86	9	39
Total	1,927	5,220	601	3,963

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1937

Norwich 1,174	Oil Springs 472	Otterville P.V.	Palmerston 1,410	Paris 4,315	Parkhill 997	Petrolia 2,720	Plattsville P.V.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
7,843.37	1,418.80	2,260.39	8,378.73	22,710.82	5,220.34	11,925.93	2,294.89
3,804.03	1,339.37	1,963.82	4,695.87	8,250.89	3,476.02	7,358.74	995.46
1,375.05	6,903.98	313.60	4,567.64	13,059.75	186.83	23,866.59	1,221.96
573.62	....	97.74	1,413.29	1,296.84	540.71	....	....
2,120.00	768.00	815.67	2,609.77	5,543.50	1,577.04	2,702.00	408.00
340.52	8.96	....	....	....	....	167.67	....
143.96	480.69	54.55	827.05	3,320.30	63.52	522.69	63.59
16,200.55	10,919.80	5,505.77	22,492.35	54,182.10	11,064.46	46,543.62	4,983.90
10,146.77	7,163.20	3,530.63	13,525.51	30,106.48	6,748.55	27,928.69	2,962.01
....	....	....	280.69	598.12	....	....	....
....	....	....	56.10	....	....	....	....
1,730.90	382.19	160.22	534.28	4,596.76	183.23	3,711.84	49.08
122.89	....	45.43	101.33	246.89	....	72.20	....
167.49	3.43	1.90	202.96	547.40	38.10	474.46	120.88
254.43	....	16.44	197.66	806.62	....	225.52	....
258.86	45.87	99.91	318.16	1,368.15	61.20	206.77	20.28
....	....	....	151.75	267.17	....	....	....
429.96	386.56	330.20	484.70	1,509.62	304.80	1,729.51	161.00
295.66	233.05	88.87	578.11	1,229.31	121.77	2,911.62	10.60
114.13	27.81	1.78	63.01	336.20	6.27	236.48	4.18
115.34	....	....	158.85	482.14	....	521.41	....
211.76	....	....	409.08	392.34	177.17	924.73	110.12
687.17	....	....	310.99	862.86	931.20	1,487.36	230.55
947.00	790.00	495.00	1,353.00	5,729.00	795.00	3,319.00	304.00
....	....	....	....	49.42	....	232.71	....
15,482.36	9,032.11	4,770.38	18,726.18	49,128.48	9,367.29	43,982.30	3,972.70
718.19	1,887.69	735.39	3,766.17	5,053.62	1,697.17	2,561.32	1,011.20
....	....	....	....	....	....	....	....
369	82	121	388	1,065	252	732	107
87	32	46	92	182	75	170	24
6	33	4	12	23	3	76	1
462	147	171	492	1,270	330	978	132

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality Population	Point Edward 1,252	Port Colborne 6,196	Port Credit 1,755	Port Dalhousie 1,459	Port Dover 1,665
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	5,521.54	30,818.31	13,556.63	15,288.35	7,396.51
Commercial light service	2,130.53	15,409.68	5,640.43	2,606.38	4,486.83
Commercial power service	29,981.87	12,644.01	2,929.79	5,398.92	5,417.54
Municipal power	....	6,818.21	1,132.11	....	....
Street lighting	1,599.96	7,998.58	2,750.00	1,578.00	2,682.12
Merchandise	....	777.59	....	....	....
Miscellaneous	698.53	857.60	495.00	168.44	52.80
Total earnings	39,932.43	75,323.98	26,503.96	25,040.09	20,035.80
EXPENSES					
Power purchased	34,936.24	39,297.48	17,458.66	16,328.57	10,459.77
Substation operation	....	....	....	....	....
Substation maintenance	....	....	....	....	....
Distribution system, operation and maintenance	168.80	3,460.39	1,574.05	2,325.26	1,927.59
Line transformer maintenance	24.07	96.00	374.25	143.30	350.08
Meter maintenance	193.30	525.77	459.96	70.70	607.96
Consumers' premises expenses	31.18	342.61	603.15	630.63	39.25
Street lighting, operation and maintenance	210.81	2,106.68	383.70	336.60	508.15
Promotion of business	....	172.85	....	....	....
Billing and collecting	....	1,857.98	1,036.73	257.66	795.80
General office, salaries and expenses	1,809.88	3,536.16	463.62	1,435.85	868.65
Undistributed expenses	15.62	168.95	8.94	49.50	78.74
Truck operation and maintenance	....	942.55	....	497.93	....
Interest	333.62	3,790.13	318.94	441.18	386.94
Sinking fund and principal payments on debentures	547.01	8,314.44	650.41	475.29	1,450.23
Depreciation	1,193.00	4,965.00	1,647.00	1,063.00	1,496.00
Other reserves	....	....	....	....	....
Total operating costs and fixed charges	39,463.53	69,576.99	24,979.41	24,055.47	18,969.16
Net surplus	468.90	5,746.99	1,524.55	984.62	1,066.64
Net loss	....	....	....	....	....
NUMBER OF CONSUMERS					
Domestic service	285	1,403	465	583	593
Commercial light service	45	239	83	48	117
Power service	9	24	7	13	14
Total	339	1,666	555	644	724

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1937

Port Rowan 666	Port Stanley 741	Preston 6,294	Princeton P.V.	Queenston P.V.	Richmond Hill 1,268	Ridgetown 1,983
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
3,028.09	12,146.45	31,589.53	2,089.72	3,095.13	7,650.23	8,720.96
1,826.17	4,342.10	17,798.68	723.52	983.39	3,894.28	6,022.15
95.98	3,066.24	41,829.17	2,426.32	....	1,604.30	3,026.49
....	792.42	1,070.78	....	....	400.77	742.71
990.00	2,361.42	5,509.00	468.00	304.12	1,472.00	3,202.92
114.00	....	....	....	....	23.95	197.98
.. 10.04	363.08	1,259.75	66.64	32.00	47.23	520.71
6,064.28	23,071.71	99,056.91	5,774.20	4,414.64	15,092.76	22,433.92
2,357.61	13,823.18	65,943.88	4,108.92	2,522.02	10,784.96	14,758.73
....	....	4,670.51	....	....	....	....
....	....	31.35	....	....	....	....
287.73	3,377.88	1,849.34	16.75	73.83	1,277.75	986.91
....	21.11	225.52	1.50	....	....	7.48
7.15	229.48	1,116.14	64.46	13.45	151.60	448.54
....	257.72	25.70	....	41.51	113.51	453.39
52.31	224.92	891.25	75.08	9.50	332.10	318.07
....	....	....	....	....	....	....
109.20	794.00	1,710.08	207.80	145.64	830.75	782.09
23.31	759.09	2,439.52	53.50	94.90	405.81	928.84
....	129.09	959.69	....	4.23	....	106.45
....	321.14	521.62	....	....	....	....
453.82	234.42	1,849.92	74.64	213.96	135.82	328.88
505.21	998.40	4,659.73	156.29	585.06	464.22	451.54
379.00	1,454.00	9,269.00	275.00	397.00	630.00	1,518.00
....	....	400.00	....	....	....	....
4,175.34	22,624.43	96,563.25	5,033.94	4,101.10	15,126.52	21,088.92
1,888.94	447.28	2,493.66	740.26	313.54	....	1,345.00
....	....	....	....	....	33.76	....
114	642	1,492	83	68	339	566
40	106	221	19	12	63	141
3	9	42	3	....	14	21
157	757	1,755	105	80	416	728

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Riverside	Rockwood	Rodney	St. Catharines	St. Clair Beach
Population	5,017	P.V.	724	26,834	100
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	37,453.23	3,345.01	3,236.34	134,194.30	2,018.15
Commercial light service	4,125.62	1,096.30	2,586.76	56,774.68	1,768.86
Commercial power service	4,167.00	425.41	2,222.51	144,494.69	310.39
Municipal power	1,286.44	....	....	....	....
Street lighting	2,900.04	774.00	1,086.00	25,777.92	....
Merchandise	....	....	....	....	....
Miscellaneous	756.12	31.23	36.31	4,706.64	....
Total earnings	50,688.45	5,671.95	9,167.92	365,948.23	4,097.40
EXPENSES					
Power purchased	27,512.66	3,407.13	5,678.58	237,185.48	2,651.43
Substation operation	....	....	....	5,937.16	....
Substation maintenance	....	....	....	....	....
Distribution system, operation and maintenance	1,710.25	220.48	311.10	13,767.42	207.17
Line transformer maintenance	209.18	....	....	1,630.29	21.32
Meter maintenance	547.99	111.98	177.10	4,315.42	29.73
Consumers' premises expenses	520.59	37.60	20.99	1,977.22	63.78
Street lighting, operation and maintenance	438.33	91.47	51.46	3,040.56	....
Promotion of business	....	....	....	280.93	....
Billing and collecting	1,944.70	....	309.77	12,379.62	211.77
General office, salaries and expenses	2,503.45	555.22	457.60	8,264.53	138.83
Undistributed expenses	323.49	....	12.22	4,761.57	....
Truck operation and maintenance	481.72	....	....	1,156.96	62.15
Interest	2,252.13	104.12	....	8,304.53	174.72
Sinking fund and principal payments on debentures	4,747.12	96.49	....	7,551.21	437.45
Depreciation	4,346.00	491.00	472.00	19,398.00	378.00
Other reserves	....	....	46.00	....	....
Total operating costs and fixed charges	47,537.61	5,115.49	7,536.82	329,950.90	4,376.35
Net surplus	3,150.84	556.46	1,631.10	35,997.33	....
Net loss	....	....	....	....	278.95
NUMBER OF CONSUMERS					
Domestic service	1,273	159	217	6,643	63
Commercial light service	64	35	75	785	6
Power service	8	2	6	150	1
Total	1,345	196	298	7,578	70

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1937

St. George P.V.	St. Jacobs P.V.	St. Marys 4,023	St. Thomas 16,088	Sarnia 18,230	Scarboro Twp.	Seaforth 1,717
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
2,989.98	3,924.59	28,701.51	116,234.10	97,459.51	98,727.59	9,866.10
1,294.80	1,612.86	10,925.18	50,346.19	48,145.58	20,175.87	5,767.01
2,638.11	3,752.18	19,828.74	52,177.34	163,594.75	11,262.88	3,882.05
....	....	3,880.07	5,522.09	5,087.13	12,354.04	632.97
412.17	460.00	4,954.23	14,847.15	18,805.22	14,929.70	1,783.33
....	....	....	....	917.34	....	....
91.09	222.99	155.99	4,276.13	10,444.55	....	107.09
7,426.15	9,972.62	68,445.72	243,403.00	344,454.08	157,450.08	22,038.55
5,059.03	7,354.32	37,024.39	174,329.55	216,879.36	83,259.79	15,026.41
....	....	1,456.94	7,935.04	8,343.80	48.99	210.75
....	....	357.72	834.35	215.56	....	....
38.86	66.79	2,187.72	10,845.71	8,338.27	5,922.82	1,268.95
....	....	136.24	1,028.94	530.25	863.84	227.24
114.28	4.50	1,228.21	2,917.12	3,975.43	3,340.63	256.47
....	....	419.32	4,998.99	1,384.47	1,524.37	210.03
134.38	27.48	1,350.16	2,930.68	5,829.29	1,748.31	402.69
....	....	517.19	2,756.06	2,278.49	....	46.38
512.02	313.52	1,123.73	4,700.40	9,721.10	5,486.03	546.46
86.08	177.47	1,722.34	9,168.20	9,566.29	4,614.23	1,163.31
....	25.61	295.05	5,070.80	6,189.51	1,937.27	172.30
....	....	833.47	1,304.50	1,173.81	1,445.31	201.62
145.23	33.70	1,811.21	79.31	4,565.51	8,099.45	....
267.60	475.39	2,666.69	....	14,583.59	16,807.51	....
349.00	414.00	4,960.00	15,100.00	20,225.00	12,805.00	2,080.00
....	....	....	....	785.70	100.00	100.00
6,706.48	8,892.78	58,090.38	243,999.65	314,585.43	148,003.55	21,912.61
719.67	1,079.84	10,355.34	....	29,868.65	9,446.53	125.94
....	....	....	596.65	....	....	....
145	126	1,046	4,196	4,658	4,769	458
36	28	182	633	638	373	118
3	7	39	76	83	38	14
184	161	1,267	4,905	5,379	5,180	590

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Simcoe	Spring-field	Stamford Twp.	Stouffville
Population	5,614	365		1,155
EARNINGS	$ c.	$ c.	$ c.	$ c.
Domestic service	24,500.24	1,687.20	59,873.97	7,005.23
Commercial light service	26,383.82	778.95	9,119.87	3,231.37
Commercial power service	26,971.09	1,019.55	13,482.20	942.73
Municipal power	3,116.15	....	1,724.16	....
Street lighting	4,620.10	569.28	7,722.00	1,512.00
Merchandise	453.71	....	1,739.50	....
Miscellaneous	1,693.99	236.42	1,339.01	396.91
Total earnings	87,739.10	4,291.40	95,000.71	13,088.24
EXPENSES				
Power purchased	46,716.26	2,769.73	40,326.46	8,287.10
Substation operation	....	....	....	....
Substation maintenance	549.70	....	1,070.84	....
Distribution system, operation and maintenance	5,055.28	140.14	5,979.27	660.01
Line transformer maintenance	320.04	6.60	30.02	....
Meter maintenance	1,139.93	37.07	1,428.73	187.15
Consumers' premises expenses	871.85	37.34	561.35	21.57
Street lighting, operation and maintenance	1,219.64	94.21	1,049.46	217.95
Promotion of business	782.22	....	619.47	....
Billing and collecting	1,734.85	408.80	2,615.02	413.46
General office, salaries and expenses	2,717.14	115.86	4,516.92	108.43
Undistributed expenses	254.50	....	1,154.98	....
Truck operation and maintenance	436.96	....	1,461.58	....
Interest	2,343.64	167.62	7,711.51	152.67
Sinking fund and principal payments on debentures	3,618.27	208.95	13,062.88	1,222.15
Depreciation	3,889.00	397.00	6,911.00	601.00
Other reserves	5,000.00	....	144.43	....
Total operating costs and fixed charges	76,649.28	4,383.32	88,643.92	11,871.49
Net surplus	11,089.82	....	6,356.79	1,216.75
Net loss	....	91.92	....	....
NUMBER OF CONSUMERS				
Domestic service	1,380	97	1,790	363
Commercial light service	347	30	135	86
Power service	40	3	18	5
Total	1,767	130	1,943	454

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1937

Stratford	Strathroy	Streetsville	Sutton	Tavistock	Tecumseh	Thamesford
17,555	2,911	636	831	1,034	2,432	P.V.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
141,205.43	19,901.80	5,482.74	8,172.84	7,290.79	12,005.71	2,734.77
55,711.89	10,751.16	553.54	3,736.21	2,609.57	3,991.48	1,589.83
52,886.61	12,466.08	3,377.55	1,040.76	8,709.74	2,276.07	1,726.50
9,187.44	1,258.28	....	....	406.37	....	....
16,567.92	4,053.96	935.50	2,010.50	1,293.84	1,281.20	522.50
1,266.24	191.69	....	....	....	....	....
9,174.31	1,769.63	597.63	26.15	235.54	....	422.34
285,999.84	50,392.60	10,946.96	14,986.46	20,545.85	19,554.46	6,995.94
170,123.28	29,606.58	3,416.33	8,806.55	15,944.53	10,775.79	4,983.98
4,217.96	370.96	1,103.34	....	....	....	....
1,175.59	....	....	....	....	....	....
7,383.72	1,132.77	592.41	327.72	728.61	692.43	386.32
445.57	130.11	11.75	....	80.55	105.34	....
3,727.88	468.76	8.85	107.03	256.35	717.03	2.25
2,014.58	454.72	....	160.79	117.22	251.93	50.69
2,023.56	906.98	124.76	120.42	32.28	240.44	45.06
1,451.89	1,665.96	....	....	....	....	140.00
5,885.32	963.24	663.84	471.02	629.75	1,404.50	201.86
8,941.58	2,463.39	203.25	253.75	299.84	1,142.74	76.17
2,890.77	300.73	56.35	27.70	56.68	25.77	....
1,043.32	321.72	....	184.15	....	578.12	....
17,775.00	1,545.99	691.88	652.71	150.70	637.80	59.23
8,339.60	1,778.99	909.29	1,668.20	239.61	1,700.72	139.70
22,873.00	3,751.00	700.00	986.00	948.00	1,683.00	508.00
....	....	25.00	....	....	....	....
260,312.62	45,861.90	8,507.05	13,766.04	19,484.12	19,955.61	6,593.26
25,687.22	4,530.70	2,439.91	1,220.42	1,061.73	....	402.68
....	....	....	....	....	401.15	....
4,247	811	167	421	277	548	129
601	169	43	84	81	49	43
123	28	4	3	8	3	7
4,971	1,008	214	508	366	600	179

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Thamesville	Thedford	Thorndale	Thorold	Tilbury
Population	788	585	P.V.	4,959	1,992
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	3,688.76	2,930.43	1,582.25	18,414.32	6,965.79
Commercial light service	2,930.06	1,783.92	774.95	6,576.86	8,594.65
Commercial power service	1,432.57	1,291.05	226.76	33,038.84	9,062.11
Municipal power	213.43			3,946.80	225.00
Street lighting	1,214.31	1,035.00	384.00	3,333.42	1,736.00
Merchandise					1.11
Miscellaneous	291.65	107.08	28.59	763.94	625.81
Total earnings	9,770.78	7,147.48	2,996.55	66,074.18	27,210.47
EXPENSES					
Power purchased	6,082.02	3,953.45	2,007.88	44,321.92	17,303.79
Substation operation				3,172.95	
Substation maintenance					
Distribution system, operation and maintenance	784.12	236.61	52.25	1,810.68	1,178.33
Line transformer maintenance		383.32		35.06	13.94
Meter maintenance	115.72	129.20	63.14	513.15	171.35
Consumers' premises expenses	157.88			215.42	7.74
Street lighting, operation and maintenance	266.01	78.63	39.43	726.82	239.24
Promotion of business				176.23	
Billing and collecting	308.55	205.95	154.01	1,453.10	609.10
General office, salaries and expenses	238.97	85.03	50.79	1,321.27	972.60
Undistributed expenses	26.69	23.80		172.17	145.21
Truck operation and maintenance				405.10	130.26
Interest		363.58	56.80		297.38
Sinking fund and principal payments on debentures		1,074.97	105.83		455.81
Depreciation	801.00	451.00	273.00	3,024.10	1,239.00
Other reserves	40.25		50.00		
Total operating costs and fixed charges	8,821.21	6,985.54	2,853.13	57,347.97	22,763.75
Net surplus	949.57	161.94	143.42	8,726.21	4,446.72
Net loss					
NUMBER OF CONSUMERS					
Domestic service	229	140	69	1,123	446
Commercial light service	80	44	21	160	140
Power service	7	3	1	17	10
Total	316	187	91	1,300	596

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1937

Tillsonburg 3,702	Toronto 645,462	Toronto Twp.	Trafalgar Twp. Area No. 1	Trafalgar Twp. Area No. 2	Wallaceburg 4,660	Wardsville 249
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
16,253.69	4,396,576.80	65,185.09	13,199.23	5,844.20	18,329.17	1,093.87
14,600.61	2,816,925.68	14,547.37	629.32	....	11,074.08	1,308.25
9,909.34	3,761,549.01	10,442.96	634.35	....	50,981.10	....
1,530.47	1,162,616.29	....	....	....	1,665.94	....
4,663.89	511,912.28	4,984.18	....	....	4,194.00	720.00
76.77	....	....	....	....	1,345.95	....
592.32	265,255.76	1,321.74	308.16	160.59	3,189.36	29.01
47,627.09	12,914,835.82	96,481.34	14,771.06	6,004.79	90,779.60	3,151.13
28,892.46	6,917,378.68	56,086.08	9,596.51	2,982.06	59,821.27	1,543.48
930.17	198,649.18	....	....	....	108.80	....
....	244,983.03	....	....	....	....	....
2,494.79	300,344.17	4,534.08	2,446.05	306.78	3,095.60	209.15
46.15	28,275.08	1,085.64	....	....	65.75	....
367.45	109,175.24	789.23	38.10	98.07	493.09	36.35
70.34	213,865.31	1,535.28	....	....	310.00	30.46
851.77	119,184.17	732.54	....	....	465.07	43.06
96.36	157,636.73	....	....	....	190.25	....
1,113.43	431,473.16	3,443.04	....	....	2,689.36	....
3,105.60	345,213.60	5,101.88	1,555.25	731.52	2,906.84	155.38
105.39	*237,914.85	311.98	151.08	....	995.23	5.52
527.56	....	1,559.55	515.53	....	915.36	....
303.70	1,123,686.19	2,579.72	523.10	522.43	2,079.15	176.28
1,231.59	1,381,530.24	5,353.62	1,150.49	....	3,437.94	521.19
3,693.00	995,353.69	10,256.00	1,317.00	399.00	5,396.00	268.00
150.00	....	....	....	....	....	....
43,979.76	12,804,663.32	93,368.64	17,293.11	5,039.86	82,969.71	2,988.87
3,647.33	110,172.50	3,112.70	....	964.93	7,809.89	162.26
....	....	....	2,522.05	....	....	....
1,026	159,179	2,164	346	158	1,089	50
226	25,041	203	2	....	244	26
31	5,130	27	9	....	32	....
1,283	189,350	2,394	357	158	1,365	76

*Includes $90,000.00 provision for possible York Twp. profit.

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Water-down	Waterford	Waterloo	Watford	Welland
Population	875	1,250	8,266	941	10,540
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	5,180.34	5,803.89	60,290.09	6,534.84	51,114.63
Commercial light service	1,711.88	2,305.24	24,173.09	2,929.90	32,008.80
Commercial power service	1,182.22	3,993.76	30,772.22	3,536.10	87,182.23
Municipal power	147.90	193.28	3,474.71	352.04	1,567.45
Street lighting	886.00	1,488.00	7,667.41	1,344.96	11,000.25
Merchandise	....	....	288.25	15.74	979.21
Miscellaneous	100.76	267.97	1,923.57	453.04	10,511.11
Total earnings	9,209.10	14,052.14	128,589.34	15,166.62	194,363.68
EXPENSES					
Power purchased	5,566.54	10,366.21	81,351.52	10,079.87	106,060.95
Substation operation	....	....	3,277.37	....	5,101.42
Substation maintenance	....	....	1,173.63	....	96.11
Distribution system, operation and maintenance	654.01	909.70	4,825.70	938.60	5,518.79
Line transformer maintenance	....	33.20	741.16	16.33	157.89
Meter maintenance	63.42	97.37	922.17	49.48	3,718.05
Consumers' premises expenses	....	48.80	2,752.85	....	937.06
Street lighting, operation and maintenance	195.35	285.98	1,433.56	45.93	791.48
Promotion of business	....	....	333.55	192.35	419.27
Billing and collecting	505.21	532.55	3,156.44	511.80	3,620.82
General office, salaries and expenses	152.93	406.89	3,431.31	677.79	9,566.72
Undistributed expenses	11.00	14.97	327.39	....	1,268.16
Truck operation and maintenance	....	....	930.11	182.02	1,576.84
Interest	....	....	1,943.19	....	13,110.63
Sinking fund and principal payments on debentures	....	....	5,020.86	....	9,149.69
Depreciation	874.00	1,100.00	9,873.00	911.00	13,741.53
Other reserves	....	....	150.00	....	....
Total operating costs and fixed charges	8,022.46	13,795.67	121,643.81	13,605.17	174,835.41
Net surplus	1,186.64	256.47	6,945.53	1,561.45	19,528.27
Net loss	....	....	....	....	....
NUMBER OF CONSUMERS					
Domestic service	232	325	1,933	271	2,454
Commercial light service	35	72	253	74	429
Power service	6	11	74	5	80
Total	273	408	2,260	350	2,963

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1937

Wellesley	West Lorne	Weston	Wheatley	Windsor	Woodbridge	Woodstock
P.V.	769	5,028	724	101,435	763	11,040
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
2,525.99	2,987.59	43,655.64	4,348.48	728,298.53	6,384.73	70,367.03
1,466.52	1,568.72	9,620.43	2,961.65	336,424.55	1,750.65	38,494.15
1,413.22	1,849.31	49,121.44	1,448.36	493,126.71	4,527.57	81,351.73
....	....	488.79	432.50	20,997.28	424.35	3,052.48
660.00	1,020.00	7,265.67	1,472.00	102,535.46	989.90	8,391.48
....	....	....	....	....	....	....
23.87	7.71	615.26	163.14	2,013.65	52.71	3,960.84
6,089.60	7,433.33	110,767.23	10,826.13	1,683,396.18	14,129.91	205,617.71
3,742.69	4,361.25	82,600.21	5,725.64	913,296.17	11,042.56	147,621.55
....	....	168.02	....	34,243.62	....	2,549.54
....	....	....	....	9,513.39	....	53.00
81.04	303.51	4,026.14	482.33	38,190.72	377.90	5,204.73
....	....	75.20	....	10,595.04	....	45.01
....	76.19	438.14	105.22	29,109.35	295.48	2,926.82
16.19	66.02	1,780.01	128.79	58,638.23	53.40	1,274.52
40.08	68.90	774.41	255.40	34,601.40	69.32	1,963.14
....	....	....	100.00	29,110.53	....	854.54
247.75	653.49	889.21	509.62	56,343.60	....	3,315.21
250.14	189.28	2,920.53	101.29	39,665.00	660.58	6,003.56
12.39	2.74	340.22	55.72	6,164.32	....	1,423.60
....	....	309.09	....	....	....	929.73
....	....	1,536.00	363.45	53,354.69	281.80	2,001.54
....	....	3,721.33	747.81	131,983.29	361.19	791.52
369.00	708.00	5,662.00	690.00	108,918.00	937.00	13,936.00
....	....	....	....	....	....	....
4,759.28	6,429.38	105,240.51	9,265.27	1,553,727.35	14,079.32	190,894.01
1,330.32	1,003.95	5,526.72	1,560.86	129,668.83	50.59	14,723.70
....	....	....	....	....	....	....
128	199	1,306	207	24,023	258	3,052
47	53	184	70	3,225	49	465
5	10	30	4	467	7	92
180	262	1,520	281	27,715	314	3,609

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Concluded

Municipality	Wyoming	*York Twp.	Zurich	NIAGARA SYSTEM SUMMARY
Population	516		P.V.	
EARNINGS	$ c.	$ c.	$ c.	$ c.
Domestic service	2,399.26	663,752.91	2,840.90	9,958,902.45
Commercial light service	1,445.79	82,747.18	2,271.57	5,199,838.55
Commercial power service	393.46	97,221.51	....	9,064,883.88
Municipal power	....	9,408.64	....	1,559,043.57
Street lighting	780.00	50,951.76	693.00	1,373,677.08
Merchandise	....	....	....	15,502.43
Miscellaneous	70.37	16,741.10	101.15	483,377.00
Total earnings	5,088.88	920,823.10	5,906.62	27,655,224.96
EXPENSES				
Power purchased	3,200.79	....	3,907.83	16,278,034.19
Substation operation	....	....	....	404,354.82
Substation maintenance	....	....	....	286,744.10
Distribution system, operation and maintenance	77.85	....	309.13	701,103.11
Line transformer maintenance	....	....	....	66,975.08
Meter maintenance	....	†834,971.17	1.35	274,541.32
Consumers' premises expenses	....	....	....	381,515.89
Street lighting, operation and maintenance	94.56	....	57.78	271,390.58
Promotion of business	....	....	....	261,485.15
Billing and collecting	197.50	....	174.15	803,551.93
General office, salaries and expenses	38.07	....	66.47	743,857.35
Undistributed expenses	9.49	....	11.69	364,729.53
Truck operation and maintenance	....	....	....	54,307.92
Interest	....	18,832.85	173.61	1,581,099.39
Sinking fund and principal payments on debentures	....	26,985.02	216.39	2,231,159.43
Depreciation	469.00	24,523.00	444.00	1,901,998.51
Other reserves	....	....	....	50,244.48
Total operating costs and fixed charges	4,087.26	905,312.04	5,362.40	26,657,092.88
Net surplus	1,001.62	15,511.06	544.22	998,132.08
Net loss	....	....	....	....
NUMBER OF CONSUMERS				
Domestic service	139	21,043	123	384,603
Commercial light service	47	1,138	47	57,364
Power service	3	167	....	10,550
Total	189	22,348	170	452,517

*For year ended Dec. 31, 1936. Included in Toronto figures. Not added in Summary.

†Toronto Operating Costs.

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1937

GEORGIAN BAY SYSTEM

Alliston 1,320	Arthur 1,052	Barrie 8,126	Beaverton 976	Beeton 605	Bradford 989	Brechin P.V.	Cannington 761
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
9,502.26	5,365.18	53,213.32	6,461.14	3,396.24	6,549.61	1,020.45	5,161.71
5,842.51	4,619.18	33,130.63	2,448.87	2,312.20	3,691.24	1,075.55	2,551.94
2,277.00	1,459.67	19,229.70	1,272.77	1,705.52	3,069.00	899.16	659.31
849.26	714.23	989.02	....	....	338.07	....	....
2,030.03	1,476.78	6,151.00	1,317.02	1,264.00	1,072.00	462.00	1,110.50
....	....	95.90	....	....	....	....	....
62.93	10.38	707.90	846.67	32.34	78.08	3.86	77.80
20,563.99	13,645.42	113,517.47	12,346.47	8,710.30	14,798.00	3,461.02	9,561.26
12,716.18	8,715.49	81,373.83	7,933.88	6,154.17	9,141.84	2,503.68	6,004.91
....	....	....	....	....	....	....	....
....	....	552.84	....	....	....	....	....
675.46	743.43	7,246.79	675.03	235.14	302.80	354.44	469.62
....	....	453.10	....	....	....	....	....
128.66	93.10	358.91	32.07	21.70	122.49	....	117.93
296.62	....	1,152.51	64.46	....	....	....	74.90
282.10	170.14	658.37	244.54	163.58	158.28	117.63	158.22
....	....	470.35	....	....	....	....	4.51
717.80	....	4,277.38	449.29	188.04	633.45	....	512.12
395.99	331.78	2,725.19	374.93	149.84	204.28	116.44	338.33
16.19	16.72	358.52	4.84	....	68.90	....	....
....	....	874.43	....	....	....	....	....
1,371.83	908.11	896.69	238.23	432.42	949.59	194.63	329.64
1,778.20	906.26	1,581.86	662.30	543.35	1,060.96	121.26	757.58
1,449.00	1,053.00	8,042.88	1,278.00	667.00	995.00	158.00	779.00
57.52	....	27.93	25.00	....	....	....	50.00
19,885.55	12,938.03	111,051.58	11,982.57	8,555.24	13,637.59	3,566.08	9,596.76
678.44	707.39	2,465.89	363.90	155.06	1,160.41	....	....
....	....	....	....	....	....	105.06	35.50
332	207	2,058	329	122	231	41	250
105	86	427	67	38	65	26	70
13	4	47	8	4	10	3	9
450	297	2,532	404	164	306	70	329

STATEMENT

Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality	Chatsworth	Chesley	Coldwater	Collingwood	Cookstown
Population	321	1,766	589	5,498	P.V.
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	1,907.08	8,597.40	2,912.71	26,253.86	2,172.60
Commercial light service	1,628.54	4,651.64	1,742.73	10,895.43	1,272.08
Commercial power service	....	6,751.70	6,326.14	13,255.32	761.49
Municipal power	....	826.11	....	1,216.63	....
Street lighting	615.00	1,572.96	884.00	3,792.25	840.00
Merchandise	....	48.77	....	12.38	....
Miscellaneous	18.75	382.14	196.21	880.39	94.33
Total earnings	4,169.37	22,830.72	12,061.79	56,306.26	5,140.50
EXPENSES					
Power purchased	2,585.84	16,998.33	10,752.42	44,599.57	2,854.55
Substation operation	....	....	....	189.24	....
Substation maintenance	....	....	....	....	....
Distribution system, operation and maintenance	123.92	312.97	442.02	1,343.69	162.61
Line transformer maintenance	....	139.66	....	78.53	....
Meter maintenance	....	85.60	58.95	638.55	34.99
Consumers' premises expenses	....	165.75	66.73	118.73	....
Street lighting, operation and maintenance	26.08	298.64	133.41	590.17	168.56
Promotion of business	....	231.32	....	....	....
Billing and collecting	....	469.31	333.27	2,405.40	227.47
General office, salaries and expenses	246.67	695.77	125.07	961.26	43.03
Undistributed expenses	....	49.00	....	121.87	27.20
Truck operation and maintenance	....	28.00	....	237.56	....
Interest	21.37	30.49	166.88	5.98	364.11
Sinking fund and principal payments on debentures	102.49	425.84	331.11	....	363.90
Depreciation	290.00	1,408.00	622.00	4,375.00	564.00
Other reserves	....	....	15.43	125.00	....
Total operating costs and fixed charges	3,396.37	21,338.68	13,047.29	55,790.55	4,810.42
Net surplus	773.00	1,492.04	....	515.71	330.08
Net loss	....	....	985.50	....	....
NUMBER OF CONSUMERS					
Domestic service	85	426	143	1,310	102
Commercial light service	34	99	54	200	32
Power service	....	20	3	52	3
Total	119	545	200	1,562	137

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1937

Creemore 631	Dundalk 652	Durham 1,816	Elmvale P.V.	Elmwood P.V.	Flesherton 446	Grand Valley 582	Gravenhurst 1,996
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
3,203.49	2,996.24	6,580.18	2,875.55	1,329.70	2,441.82	3,368.91	9,631.59
1,948.02	2,771.10	4,758.40	1,720.57	696.71	1,924.89	1,993.31	7,358.44
758.52	2,597.99	3,350.91	2,632.98	1,255.75	137.72	1,485.03	10,040.89
....	....	629.48	143.37	....	....	....	704.55
720.00	1,230.00	1,839.96	696.00	529.00	608.00	988.00	2,092.98
....	....	....	....	....	....	....	1,299.46
88.26	144.36	391.03	147.59	95.87	58.54	203.13	453.99
6,718.29	9,739.69	17,549.96	8,216.06	3,907.03	5,170.97	8,038.38	31,581.90
5,070.18	6,064.97	12,459.09	5,780.54	2,318.34	3,564.09	5,697.56	18,566.88
....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....
141.38	878.77	814.48	599.05	43.51	64.76	183.31	2,397.46
....	....	169.17	....	....	....	....	440.89
64.25	23.45	81.70	54.87	....	68.00	24.95	305.47
32.88	7.09	48.71	24.77	....	....	....	86.89
68.06	147.02	259.75	121.09	11.86	29.55	68.64	986.66
....	....	57.38	....	....	....	....	....
194.04	....	617.59	230.04	....	....	....	1,122.32
43.51	807.96	784.72	175.08	174.77	362.74	632.28	393.09
....	....	57.89	....	....	....	....	691.74
....	....	322.82	....	....	....	....	367.08
1.69	0.32	....	115.46	40.78	357.44	....	500.00
....	....	....	339.80	239.50	313.51	....	178.30
452.00	509.00	1,325.00	731.00	277.00	380.00	625.00	1,966.00
....	....	....	....	....	....	....	....
6,067.99	8,438.58	16,998.30	8,171.70	3,105.76	5,140.09	7,231.74	28,002.78
650.30	1,301.11	551.66	44.36	801.27	30.88	806.64	3,579.12
....	....	....	....	....	....	....	....
126	168	442	170	63	145	159	510
55	73	107	58	23	53	52	129
2	5	12	8	1	1	6	16
183	246	561	236	87	199	217	655

STATEMENT

Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality	Hanover	Holstein	Huntsville	Kincardine	Kirkfield
Population	3,061	P.V.	2,700	2,468	P.V.
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	19,287.56	969.26	12,009.12	15,184.34	775.15
Commercial light service	7,294.28	565.10	9,274.75	8,289.83	1,194.57
Commercial power service	19,176.30	125.41	12,398.57	10,255.28	....
Municipal power	324.15	....	1,400.00	1,361.66	....
Street lighting	2,952.54	350.00	2,473.05	4,432.50	480.00
Merchandise	....	....	....	....	....
Miscellaneous	1,381.42	76.26	1,141.41	58.36	....
Total earnings	50,416.25	2,086.03	38,696.90	39,581.97	2,449.72
EXPENSES					
Power purchased	32,533.69	1,434.14	25,480.10	26,383.51	1,332.17
Substation operation	....	....	....	....	....
Substation maintenance	....	....	....	479.65	....
Distribution system, operation and maintenance	2,611.84	105.97	2,192.04	1,615.28	188.34
Line transformer maintenance	68.33	....	30.12	....	....
Meter maintenance	291.38	22.65	325.63	227.32	....
Consumers' premises expenses	229.58	....	544.57	155.07	....
Street lighting, operation and maintenance	282.53	7.60	858.01	523.09	45.88
Promotion of business	....	....	446.14	132.51	....
Billing and collecting	1,158.24	....	1,218.43	715.49	....
General office, salaries and expenses	1,011.70	169.95	1,148.33	638.24	97.08
Undistributed expenses	246.98	....	474.17	184.66	....
Truck operation and maintenance	142.25	....	217.24	211.56	....
Interest	959.53	....	140.50	1,205.88	163.32
Sinking fund and principal payments on debentures	6,669.14	....	219.61	3,976.10	414.48
Depreciation	3,783.00	128.40	1,412.00	2,491.00	239.00
Other reserves	....	....	800.00	....	....
Total operating costs and fixed charges	49,988.19	1,868.71	35,506.89	38,939.36	2,480.27
Net surplus	428.06	217.32	3,190.01	642.61	....
Net loss	....	....	....	....	30.55
NUMBER OF CONSUMERS					
Domestic service	740	52	624	660	29
Commercial light service	138	19	135	122	19
Power service	24	1	12	19	....
Total	902	72	771	801	48

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1937

Lucknow 1,068	Markdale 802	Meaford 2,719	Midland 6,690	Mildmay 750	Mount Forest 1,815	Neustadt 451	Orangeville 2,479
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
6,497.25	3,468.41	12,212.46	34,945.51	2,942.72	8,578.31	1,952.52	15,451.31
3,648.11	2,667.17	7,503.21	15,596.03	1,925.33	6,826.62	988.33	9,747.88
3,397.74	1,051.43	7,435.64	48,868.61	1,064.47	3,443.80	194.79	5,400.06
458.52	30.00	844.94	2,778.36	....	938.73	....	1,159.07
1,691.90	900.00	2,975.00	6,376.00	731.00	2,093.67	780.00	3,016.04
....	....	....	43.84	....	....	....	76.51
186.87	113.22	939.63	1,952.69	148.85	255.73	106.34	492.98
15,880.39	8,230.23	31,910.88	110,561.04	6,812.37	22,136.86	4,021.98	35,343.85
11,414.37	6,136.80	20,838.81	77,802.15	3,975.44	18,018.71	1,784.72	25,798.37
....	....	....	1,964.64	....	....	....	....
....	....	....	583.49	....	....	....	....
284.47	158.92	1,678.19	2,919.33	109.42	770.13	218.20	1,164.38
....	....	18.56	242.69	....	....	....	164.44
56.60	70.77	237.57	725.05	13.00	161.90	....	204.30
....	123.26	82.41	228.27	107.46	....	....	125.34
134.59	77.64	507.25	656.73	95.66	367.12	37.46	417.99
....	....	1.19	372.54	....	....	....	28.16
....	....	802.02	3,015.88	....	689.87	....	1,205.18
1,210.00	486.87	669.66	2,239.90	318.20	109.83	244.29	390.80
....	....	195.91	837.62	....	38.20	....	63.37
....	....	153.60	286.57	....	186.32	....	....
440.60	266.83	1,541.99	1,081.00	548.54	523.04	190.78	155.01
1,203.80	387.01	3,739.08	4,646.36	496.24	786.69	1,214.99	104.40
873.00	650.00	1,588.00	11,027.36	251.00	1,540.00	652.00	2,300.00
....	....	....	....	....	....	....	....
15,617.43	8,358.10	32,054.24	108,629.58	5,914.96	23,191.81	4,342.44	32,121.74
262.96	....	....	1,931.46	897.41	....	....	3,222.11
....	127.87	143.36	....	....	1,054.95	320.46	....
266	210	669	1,593	153	473	92	677
78	75	145	217	47	151	26	159
6	10	18	55	3	11	1	25
350	295	832	1,865	203	635	119	861

STATEMENT

Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality Population	Owen Sound 13,100	Paisley 792	Penetanguishene 4,061	Port Elgin 1,267	Port McNicoll 933
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	60,404.54	3,717.40	12,000.68	8,015.23	3,613.96
Commercial light service	40,437.30	2,821.46	7,029.69	4,991.92	799.61
Commercial power service	44,017.50	993.15	14,480.75	3,003.32	....
Municipal power	....	....	2,582.74	785.82	....
Street lighting	13,083.55	1,260.00	2,276.00	2,389.32	908.00
Merchandise	408.11	....	....	....	....
Miscellaneous	1,483.29	191.97	193.44	500.98	3.72
Total earnings	159,834.29	8,983.98	38,563.30	19,686.59	5,325.29
EXPENSES					
Power purchased	115,468.52	5,880.86	24,104.35	12,534.70	2,768.58
Substation operation	....	....	....	....	....
Substation maintenance	2,470.63	....	97.68	....	....
Distribution system, operation and maintenance	4,734.59	336.47	2,264.29	945.18	385.66
Line transformer maintenance	1,655.22	....	50.20	....	....
Meter maintenance	1,672.78	23.90	257.95	120.28	86.85
Consumers' premises expenses	128.37	29.07	203.61	243.17	....
Street lighting, operation and maintenance	2,387.77	90.96	788.14	263.84	149.86
Promotion of business	198.39	....	....	....	....
Billing and collecting	6,194.56	....	1,025.84	654.90	346.89
General office, salaries and expenses	5,671.32	501.76	596.95	216.49	223.66
Undistributed expenses	1,751.12	....	168.53	34.34	65.50
Truck operation and maintenance	1,208.01	....	233.66	147.14	....
Interest	....	418.48	501.23	1,673.86	57.17
Sinking fund and principal payments on debentures	....	920.39	1,996.37	1,702.20	152.06
Depreciation	7,821.00	584.00	3,121.00	1,020.00	460.00
Other reserves	....	....	....	....	....
Total operating costs and fixed charges	151,362.28	8,785.89	35,409.80	19,556.10	4,696.23
Net surplus	8,472.01	198.09	3,153.50	130.49	629.06
Net loss	....	....	....	....	....
NUMBER OF CONSUMERS					
Domestic service	3,301	187	609	432	210
Commercial light service	559	53	108	101	25
Power service	105	4	28	8	....
Total	3,965	244	745	541	235

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1937

Port Perry 1,124	Priceville P.V.	Ripley 442	Rosseau 315	Shelburne 1,114	Southampton 1,255	Stayner 999	Sunderland P.V.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
6,474.32	693.43	3,268.67	2,869.27	5,776.33	8,176.98	4,632.97	2,545.12
3,066.39	301.15	1,577.42	995.67	3,887.41	3,367.26	3,260.10	1,833.00
2,730.27	64.87	....	....	1,881.93	2,793.50	1,900.26	211.63
324.93	....	....	....	648.97	1,188.17	....	....
1,470.00	560.00	1,070.00	1,160.25	1,056.00	2,319.96	1,320.00	720.00
....	....	....	....	....	....	....	....
563.07	4.39	6.91	46.64	299.45	166.18	252.76	26.55
14,628.98	1,623.84	5,923.00	5,071.83	13,550.09	18,012.05	11,366.09	5,336.30
10,886.75	715.92	3,724.41	3,184.44	9,253.19	9,984.97	7,883.53	3,756.47
....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....
918.16	48.72	135.87	263.41	493.40	895.06	533.92	184.83
....	....	....	....	....	....	....	....
205.93	....	74.50	48.50	73.50	201.58	67.84	53.28
16.10	....	....	....	32.02	180.73	22.72	....
168.96	26.74	56.09	103.84	87.36	221.34	215.20	101.84
....	....	....	....	....	....	....	....
687.35	....	....	190.67	467.06	689.78	489.37	238.58
370.60	77.48	549.08	76.65	199.45	456.70	300.25	117.57
....	....	....	....	....	30.48	23.42	....
....	....	....	....	....	158.15	....	....
746.32	108.75	546.06	719.42	62.06	954.05	18.72	126.02
943.70	414.35	482.00	420.90	356.34	1,337.42	....	274.34
947.00	205.00	494.00	267.00	1,088.00	913.00	1,016.00	332.00
....	....	....	....	....	....	15.00	....
15,890.87	1,596.96	6,062.01	5,274.83	12,112.38	16,023.26	10,585.97	5,184.93
....	26.88	....	....	1,437.71	1,988.79	780.12	151.37
1,261.89	....	139.01	203.00	....	....	....	....
311	35	126	61	263	448	264	115
76	10	44	20	81	82	88	45
11	1	....	....	14	12	10	2
398	46	170	81	358	542	362	162

STATEMENT

Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY SYSTEM—Concluded

Municipality	Tara	Teeswater	Thornton	Tottenham	Uxbridge
Population	471	837	P.V.	540	1,483
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	2,882.59	4,529.29	1,380.15	3,615.62	8,272.57
Commercial light service	1,609.30	2,564.45	572.51	2,186.30	4,200.50
Commercial power service	984.27	1,141.88	265.93	225.46	878.98
Municipal power		180.00		196.80	
Street lighting	1,332.00	1,293.16	880.00	980.00	1,720.00
Merchandise					
Miscellaneous	13.86	114.04	2.83	13.60	18.81
Total earnings	6,822.02	9,822.82	3,101.42	7,217.78	15,090.86
EXPENSES					
Power purchased	3,812.33	5,992.09	1,371.52	4,765.16	11,646.89
Substation operation					
Substation maintenance					
Distribution system, operation and maintenance	129.58	184.01	36.05	312.26	594.64
Line transformer maintenance		97.18			
Meter maintenance	239.93	68.20			53.31
Consumers' premises expenses					12.67
Street lighting, operation and maintenance	41.84	56.73	27.47	108.48	159.03
Promotion of business		45.00			
Billing and collecting					798.37
General office, salaries and expenses	585.16	677.95	80.47	307.16	403.99
Undistributed expenses					21.75
Truck operation and maintenance					
Interest	129.06	550.74	119.47	334.06	
Sinking fund and principal payments on debentures	540.38	1,457.31	536.57	471.32	
Depreciation	621.00	805.00	364.00	466.00	768.00
Other reserves					
Total operating costs and fixed charges	6,099.28	9,934.21	2,535.55	6,764.44	14,458.65
Net surplus	722.74		565.87	453.34	632.21
Net loss		111.39			
NUMBER OF CONSUMERS					
Domestic service	139	208	60	135	392
Commercial light service	40	54	13	52	97
Power service	4	7	2	6	10
Total	183	269	75	193	499

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1937

Victoria Harbor 1,043	Walkerton 2,350	Waubaushene P.V.	Wiarton 1,766	Windermere 146	Wingham 2,115	Woodville 365	GEORGIAN BAY SYSTEM SUMMARY
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
3,024.48	14,331.48	2,366.59	8,598.76	2,583.67	11,617.39	2,208.70	486,815.15
879.83	8,353.81	595.48	7,243.71	1,166.51	7,294.82	1,181.66	286,772.45
20.29	6,236.45	431.45	3,186.32	....	9,794.97	525.82	288,507.67
116.72	623.44	94.05	1,576.06	....	459.05	....	24,482.90
663.00	2,707.00	464.00	2,362.35	390.00	3,360.66	626.00	106,914.43
....	439.92	....	....	....	1,080.47	....	3,505.36
....	....	24.99	412.34	9.14	1,498.46	213.72	17,889.45
4,704.32	32,692.10	3,976.56	23,379.54	4,149.32	35,105.82	4,755.90	1,214,887.41
2,557.90	20,591.95	3,292.07	13,761.41	1,910.46	17,535.92	2,893.32	825,067.03
....	....	....	....	....	1,883.20	....	4,037.08
....	....	....	....	....	....	....	4,184.29
214.07	1,434.88	150.11	516.94	140.19	2,189.54	290.46	50,559.44
....	105.02	....	....	....	177.50	....	3,890.61
....	503.82	30.93	256.28	....	292.40	58.02	9,041.59
....	79.58	13.76	....	....	....	28.77	4,726.57
126.06	491.70	69.68	263.01	30.91	547.55	73.59	15,531.89
....	....	....	....	....	....	....	1,987.49
....	1,022.72	....	885.74	....	625.08	238.48	35,738.02
452.85	1,609.10	379.35	521.08	231.05	1,985.44	126.23	35,535.37
....	107.15	....	59.71	....	178.71	....	5,894.49
....	141.27	....	196.55	....	440.26	....	5,552.47
3.06	2,588.60	9.63	1,626.73	568.12	2,023.24	110.29	28,137.82
....	2,431.68	....	1,374.82	468.55	1,534.66	289.12	51,668.60
485.00	1,566.00	380.00	890.00	343.00	3,321.00	255.00	83,412.64
....	....	....	....	....	....	50.00	1,165.88
3,838.94	32,673.47	4,325.53	20,352.27	3,692.28	32,734.50	4,413.28	1,166,131.28
865.38	18.63	....	3,027.27	457.04	2,371.32	342.62	48,756.13
....	....	348.97	....	....	....	....	....
192	587	172	390	52	551	112	23,009
21	136	23	116	12	146	32	5,218
2	17	4	16	....	24	2	701
215	740	199	522	64	721	146	28,928

STATEMENT

Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO SYSTEM

Municipality	Alexandria	Apple Hill	Athens	Bath	Belleville
Population	1,926	P.V.	669	318	14,509
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	7,415.81	1,313.90	3,204.97	1,481.71	78,466.57
Commercial light service	5,547.55	909.64	1,322.49	888.74	50,519.55
Commercial power service	2,499.92	320.76	909.87		38,791.99
Municipal power	809.16				4,459.74
Street lighting	1,936.00	478.50	1,055.00	714.00	10,665.46
Merchandise					
Miscellaneous	254.82	7.24	138.74		10,828.67
Total earnings	18,463.26	3,030.04	6,631.07	3,084.45	193,731.98
EXPENSES					
Power purchased	9,319.34	1,748.30	3,754.67	1,918.35	139,904.13
Substation operation					27.69
Substation maintenance					
Distribution system, operation and maintenance	730.15	52.63	192.08	91.71	2,750.23
Line transformer maintenance	15.20				237.95
Meter maintenance	159.07	8.50	5.61		1,448.99
Consumers' premises expenses	39.52				3,997.74
Street lighting, operation and maintenance	145.31	62.69	69.20	1.80	1,529.64
Promotion of business					142.77
Billing and collecting	873.70				3,969.59
General office, salaries and expenses	372.57	231.96	236.74	111.40	7,813.64
Undistributed expenses	72.25				563.65
Truck operation and maintenance					
Interest	729.20	139.38	566.88	411.96	
Sinking fund and principal payments on debentures	2,762.34	383.72	616.19	266.46	
Depreciation	1,507.00	189.00	530.00	200.00	6,421.00
Other reserves			100.00		
Total operating costs and fixed charges	16,725.65	2,816.18	6,071.37	3,001.68	168,807.02
Net surplus	1,737.61	213.86	559.70	82.77	24,924.96
Net loss					
NUMBER OF CONSUMERS					
Domestic service	330	50	170	38	3,159
Commercial light service	112	22	49	18	719
Power service	14	2	1		96
Total	456	74	220	56	3,974

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1937

Bloomfield 663	Bowmanville 3,611	Brighton 1,420	Brockville 9,903	Cardinal 1,471	Carleton Place 4,275	Chesterville 1,067	Cobden 637
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
3,122.87	27,388.72	8,739.86	47,633.58	6,513.04	18,701.91	5,153.14	2,369.39
1,557.88	9,790.57	4,041.09	24,901.86	2,049.59	9,784.30	3,587.23	2,621.54
837.47	51,512.75	2,377.49	33,134.14	633.08	26,953.94	2,333.61	297.77
....	....	....	4,192.87	....	1,502.12	....	....
660.00	3,122.66	2,191.92	8,584.50	932.00	4,806.00	1,179.40	908.00
....	....	....	....	....	83.87	170.85	....
31.48	2,759.82	314.23	6,201.75	154.44	1,817.19	458.16	24.27
6,209.70	94,574.52	17,664.59	124,648.70	10,282.15	63,649.33	12,882.39	6,220.97
4,277.17	65,144.28	8,190.44	83,801.27	6,380.66	41,512.12	7,127.85	3,575.39
....	42.30	....	5,160.00	....	173.01	....	....
....	....	....	423.88	....	....	....	....
88.71	1,563.54	1,577.61	2,433.50	998.26	1,292.05	934.03	116.79
....	7.17	42.86	26.66	....	124.09	....	....
4.23	753.37	136.71	1,906.60	49.51	870.42	15.30	29.65
....	442.67	81.67	242.55	133.11	1,046.58	89.60	....
151.45	347.70	148.57	1,266.11	173.85	449.07	230.19	126.07
....	463.87	20.10	378.69	....	81.23	....	....
....	2,087.27	615.32	2,253.31	....	1,534.20	390.33	291.16
263.24	2,058.38	1,596.59	5,168.90	579.94	3,749.77	419.44	94.60
2.00	890.24	335.26	1,211.46	14.04	193.40	....	....
....	....	336.45	642.74	....	520.10	....	....
350.37	1,670.64	845.89	....	567.72	2,130.58	114.98	414.83
509.81	2,780.33	1,025.50	....	607.92	3,042.17	236.49	485.17
573.00	2,346.00	673.00	9,485.00	456.00	2,331.00	604.00	122.00
....	....	....	....	....	....	....	....
6,219.98	80,597.76	15,625.97	114,400.67	9,961.01	59,049.79	10,162.21	5,255.66
....	13,976.76	2,038.62	10,248.03	321.14	4,599.54	2,720.18	965.31
10.28	....	....	....	....	....	....	....
164	1,123	493	2,752	347	987	237	104
31	157	97	449	61	195	71	47
6	29	11	72	3	18	4	1
201	1,309	601	3,273	411	1,200	312	152

STATEMENT

Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO SYSTEM—Continued

Municipality	Cobourg	Colborne	Deseronto	Finch	Hastings
Population	5,063	954	1,287	392	811
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	28,748.06	4,897.97	5,762.67	2,064.42	4,165.09
Commercial light service	18,295.68	3,099.08	2,189.38	1,687.04	2,013.42
Commercial power service	23,806.21	533.25	1,227.67	294.21	250.87
Municipal power	2,735.08	214.30	686.20	....	....
Street lighting	5,709.52	1,452.00	1,320.00	456.00	1,221.40
Merchandise	....	....	....	....	....
Miscellaneous	2,435.94	333.05	157.43	147.62	323.67
Total earnings	81,730.49	10,529.65	11,343.35	4,649.29	7,974.45
EXPENSES					
Power purchased	48,285.32	4,728.04	5,732.96	2,647.07	3,520.74
Substation operation	76.90	....	....	....	....
Substation maintenance	....	....	....	....	....
Distribution system, operation and maintenance	4,120.73	1,150.74	1,263.01	178.94	628.69
Line transformer maintenance	530.68	4.90	4.00	....	17.50
Meter maintenance	1,083.57	97.02	66.09	11.70	27.89
Consumers' premises expenses	1,012.96	258.97	166.40	14.08	....
Street lighting, operation and maintenance	985.77	63.62	634.82	77.23	119.42
Promotion of business	1,184.94	....	84.64	....	....
Billing and collecting	2,800.57	....	332.97	....	302.05
General office, salaries and expenses	4,117.77	1,317.80	783.82	296.13	120.56
Undistributed expenses	1,274.64	39.13	78.34	....	25.21
Truck operation and maintenance	83.86	274.00	296.26	....	....
Interest	3,534.46	678.25	211.47	288.79	970.13
Sinking fund and principal payments on debentures	3,962.14	485.66	587.39	321.50	787.14
Depreciation	3,223.00	327.00	434.00	298.00	544.00
Other reserves	....	....	....	....	....
Total operating costs and fixed charges	76,277.31	9,425.13	10,676.17	4,133.44	7,063.33
Net surplus	5,453.18	1,104.52	667.18	515.85	911.12
Net loss	....	....	....	....	....
NUMBER OF CONSUMERS					
Domestic service	1,245	246	293	91	195
Commercial light service	294	75	67	35	51
Power service	50	5	7	1	4
Total	1,589	326	367	127	250

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1937

Havelock 1,208	Kemptville 1,178	Kingston 23,513	Lakefield 1,337	Lanark 623	Lancaster 608	Lindsay 7,116
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
5,061.67	7,306.20	128,283.98	6,105.64	3,227.51	1,941.58	38,663.58
2,479.56	4,932.15	81,408.83	4,127.01	1,402.66	1,671.50	26,091.06
2,409.10	5,184.57	98,584.59	4,043.25	....	....	26,672.34
....	....	8,684.23	....	....	....	2,868.75
1,533.00	1,729.75	15,977.70	1,736.62	570.00	825.00	6,423.20
....	135.75	....	....	....	....	....
474.93	1,020.05	3,749.22	484.15	121.75	12.84	4.342.00
11,958.26	20,308.47	336,688.55	16,496.67	5,322.02	4,450.92	105,060.93
6,178.40	11,063.29	215,345.60	9,561.88	3,129.48	2,186.77	66,627.03
....	....	5,198.68	....	....	....	....
....	....	3,002.54	....	....	....	....
920.87	1,323.03	13,829.19	1,069.40	128.99	128.37	2,937.28
25.59	127.89	1,154.12	28.58	....	....	627.28
16.19	274.09	4,808.15	80.05	16.95	13.35	1,309.35
....	75.04	2,088.89	....	....	....	1,184.84
147.80	279.86	3,235.68	244.86	46.08	50.73	2,032.84
....	....	361.60	....	....	....	....
....	1,059.37	5,349.35	575.29	....	....	3,100.62
397.40	457.66	12,475.68	713.76	406.27	299.88	6,693.02
4.16	126.61	9,011.28	100.05	....	....	1,262.15
255.12	369.47	1,745.00	....	....	....	....
626.74	978.15	3,309.31	1,503.05	97.87	55.06	4,477.60
2,241.63	803.32	4,180.50	1,062.31	586.34	897.69	5,808.67
968.00	1,115.00	23,793.00	1,303.00	318.00	325.00	4,320.00
....	....	2,500.00	....	....	....	....
11,781.90	18,052.78	311,388.57	16,242.23	4,729.98	3,956.85	100,380.68
176.36	2,255.69	25,299.98	254.44	592.04	494.07	4,680.25
....	....	....	....	....	....	....
280	340	6,065	316	176	87	1,938
64	86	911	70	36	35	333
3	6	143	6			74
347	432	7,119	392	212	122	2,345

STATEMENT

Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO SYSTEM—Continued

Municipality	Madoc	Marmora	Martintown P.V.	Maxville	Napanee
Population	1,253	948		741	3,061
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	4,662.12	3,624.32	887.29	3,699.61	23,278.78
Commercial light service	3,446.88	2,017.10	981.31	2,787.64	14,092.20
Commercial power service	1,250.03	353.40			10,762.14
Municipal power					383.67
Street lighting	1,500.00	1,361.00	195.00	1,175.25	4,198.77
Merchandise					
Miscellaneous	71.28	42.08	20.57	62.36	3,710.33
Total earnings	10,930.31	7,397.90	2,084.17	7,724.86	56,425.89
EXPENSES					
Power purchased	6,661.42	3,878.27	1,259.38	4,098.92	31,343.69
Substation operation					
Substation maintenance					
Distribution system, operation and maintenance	1,394.28	335.52	32.37	181.99	2,791.90
Line transformer maintenance	14.56				23.41
Meter maintenance	56.38	29.20	6.90	27.75	577.21
Consumers' premises expenses		43.16		53.99	544.92
Street lighting, operation and maintenance	229.20	46.62	29.28	192.25	326.82
Promotion of business					249.94
Billing and collecting					1,803.33
General office, salaries and expenses	1,154.58	580.64	150.95	321.24	4,435.41
Undistributed expenses	9.25	7.75			1,711.28
Truck operation and maintenance					
Interest		343.14		258.31	932.78
Sinking fund and principal payments on debentures		927.36		1,080.76	2,871.40
Depreciation	451.00	597.00	158.00	549.00	1,739.00
Other reserves				100.00	
Total operating costs and fixed charges	9,970.67	6,788.66	1,636.88	6,864.21	49,351.09
Net surplus	959.64	609.24	447.29	860.65	7,074.80
Net loss					
NUMBER OF CONSUMERS					
Domestic service	278	210	41	145	807
Commercial light service	88	47	23	47	194
Power service	6	3			33
Total	372	260	64	192	1,034

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1937

Newcastle	Norwood	Omemee	Oshawa	Ottawa	Perth	Peterborough
675	753	579	24,692	141,903	4,184	23,072
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
4,951.52	4,455.06	2,652.68	168,007.14	495,646.48	23,768.94	139,315.14
1,918.50	2,301.50	1,659.53	66,426.67	186,663.94	14,592.83	75,892.10
1,779.62	697.11	2,471.01	250,287.97	55,706.98	13,763.89	102,840.01
....	....	....	8,736.87	21,523.59	1,704.91	6,535.61
660.00	1,566.00	1,002.00	11,935.37	77,334.92	2,440.92	22,193.20
....	....	....	....	....	1,932.03	....
60.85	638.04	61.22	9,084.78	4,891.54	3,231.62	2,463.38
9,370.49	9,657.71	7,846.44	514,478.80	841,767.45	61,435.14	349,239.44
4,805.09	3,213.99	4,621.14	419,514.33	406,265.11	38,265.43	223,118.16
....	....	....	112.89	28,611.11	368.19	7,196.10
....	....	....	....	538.93	....	872.08
184.86	538.65	601.42	6,447.30	22,139.59	2,002.96	5,580.76
65.75	15.84	....	704.49	2,015.71	202.77	492.58
259.88	42.76	27.50	4,701.40	10,735.58	354.64	5,911.81
....	62.29	....	4,657.63	3,905.66	13.75	6,048.48
47.67	53.33	75.28	1,882.62	31,600.95	407.69	4,121.40
160.39	....	....	3,535.59	10,391.47	733.85	993.75
558.37	....	....	8,580.89	45,803.00	1,778.60	6,206.34
370.98	409.62	259.02	8,067.68	29,339.44	3,255.25	6,610.54
....	18.20	2.54	3,965.50	15,428.38	671.11	4,787.91
....	254.59	....	....	2,436.67	641.14	2,081.68
665.00	1,457.92	86.41	9,441.64	30,335.74	3,456.07	27,746.00
434.71	1,295.55	959.83	13,320.12	17,551.21	1,800.64	14,263.54
695.00	1,139.00	669.00	11,427.00	84,623.00	3,800.00	17‘792.00
....	....	....	....	778.33	300.00	500.00
8,247.70	8,501.74	7,302.14	496,359.08	742,499.88	58,052.09	334,323.13
1,122.79	1,155.97	544.30	18,119.72	99,267.57	3,383.05	14,916.31
....	....	....	....	....	....	....
184	227	149	6,210	13,463	1,006	5,475
33	64	46	544	1,341	200	890
5	2	6	102	185	25	150
222	293	201	6,856	14,989	1,231	6,515

STATEMENT

Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO SYSTEM—Continued

Municipality	Picton	Port Hope	Prescott	Richmond	Russell
Population	3,481	4,564	2,942	408	P.V.
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	22,070.90	25,996.29	16,605.74	1,712.51	2,568.80
Commercial light service	14,876.86	12,752.36	9,309.35	1,550.52	1,458.81
Commercial power service	4,584.69	28,764.60	3,719.45	....	....
Municipal power	1,728.84	1,530.98	1,301.15	....	....
Street lighting	3,430.35	4,311.96	3,475.00	416.00	752.00
Merchandise	1,393.88	....	....	....	....
Miscellaneous	1,950.02	941.25	249.03	7.37	119.35
Total earnings	50,035.54	74,297.44	34,659.72	3,686.40	4,898.96
EXPENSES					
Power purchased	34,182.22	47,522.94	23,053.75	2,077.52	2,344.23
Substation operation	....	....	1,264.90	....	....
Substation maintenance	....	....	28.20	....	....
Distribution system, operation and maintenance	2,830.72	1,580.72	2,722.99	48.99	88.41
Line transformer maintenance	264.25	40.19	1.60	....	....
Meter maintenance	179.82	1,105.35	94.30	26.00	72.10
Consumers' premises expenses	799.54	1,454.37	....	....	40.30
Street lighting, operation and maintenance	697.85	916.90	781.55	28.37	59.71
Promotion of business	1,105.62	....	245.74	....	....
Billing and collecting	1,300.70	1,841.98	1,124.53	....	....
General office, salaries and expenses	2,342.90	3,425.82	2,098.43	187.43	381.51
Undistributed expenses	185.21	847.90	434.88	....	....
Truck operation and maintenance	492.50	307.08	....	....	....
Interest	....	....	....	284.09	335.81
Sinking fund and principal payments on debentures	....	....	....	282.62	516.83
Depreciation	2,211.00	2,345.00	3,058.00	238.00	312.00
Other reserves	....	....	....	....	....
Total operating costs and fixed charges	46,592.33	61,388.25	34,908.87	3,173.02	4,150.90
Net surplus	3,443.21	12,909.19	....	513.38	748.06
Net loss	....	....	249.15	....	....
NUMBER OF CONSUMERS					
Domestic service	983	1,317	716	59	120
Commercial light service	196	206	163	28	32
Power service	34	39	19	....	....
Total	1,213	1,562	898	87	152

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1937

Smiths Falls 7,623	Stirling 935	Trenton 6,440	Tweed 1,311	Warkworth P.V.	Wellington 872	Westport 720	Whitby 3,778
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
41,505.24	5,087.22	28,801.37	5,860.09	2,005.61	5,462.02	3,325.24	21,168.36
15,340.97	3,356.80	18,913.19	4,442.86	1,699.61	2,195.91	2,988.62	11,123.21
24,274.48	1,397.39	62,253.56	2,853.87	....	2,210.79	....	14,300.03
225.00	314.17	1,902.86	234.21	....	....	....	1,617.60
8,172.40	1,607.70	6,583.99	1,906.23	653.44	996.00	1,310.00	4,051.56
....	....	....	....	....	....	....	....
2,914.95	552.01	3,052.55	452.15	143.26	260.64	143.37	3,049.80
92,433.04	12,315.29	121,507.52	15,749.41	4,501.92	11,125.36	7,767.23	55,310.56
51,681.77	6,866.01	80,509.14	9,248.28	2,633.95	7,302.13	4,190.57	33,086.69
453.72	195.28	....	....	....	....	....	349.30
331.53	....	43.53	....	....	....	....	....
3,542.57	799.46	2,209.22	1,667.54	79.17	947.08	164.64	3,032.26
325.11	37.44	182.06	42.25	31.77	....	....	166.94
1,899.64	199.78	1,065.94	367.09	63.88	116.40	135.35	395.08
2,278.24	21.46	403.84	17.03	....	98.38	....	551.40
1,376.53	263.19	438.02	255.16	31.78	62.93	98.56	873.27
1,093.22	....	78.80	....	....	....	....	1,631.92
3,543.16	499.73	2,798.62	822.53	....	....	....	1,289.10
2,594.32	1,165.76	5,234.99	1,060.87	215.07	640.32	816.09	2,165.55
432.96	54.47	1,606.40	63.60	6.74	32.00	....	143.35
1,027.72	262.35	....	....	....	....	42.56	....
1,665.80	....	4,048.17	415.31	519.17	602.43	708.03	1,599.43
15,571.34	....	6,461.33	....	279.97	823.36	562.24	2,726.65
6,556.00	882.00	4,561.00	549.00	244.00	806.00	239.00	3,374.00
500.00	....	....	83.97	....	....	....	....
94,873.63	11,246.93	109,641.06	14,592.63	4,105.50	11,431.03	6,957.04	51,384.94
....	1,068.36	11,866.46	1,156.78	396.42	....	810.19	3,925.62
2,440.59	....	....	....	....	305.67	....	....
1,795	262	1,402	287	112	308	106	875
271	84	262	97	47	65	49	161
44	10	49	11	....	6	....	20
2,110	356	1,713	395	159	379	155	1,056

STATEMENT

Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO SYSTEM—Concluded				THUNDER BAY SYSTEM
Municipality	Williamsburg	Winchester	EASTERN ONTARIO SYSTEM SUMMARY	Fort William
Population	P.V.	1,029		24,231
EARNINGS	$ c.	$ c.	$ c.	$ c.
Domestic service	2,842.00	6,237.79	1,513,932.20	190,834.87
Commercial light service	4,778.22	3,407.54	747,894.43	63,896.06
Commercial power service	165.66	1,506.59	909,552.12	38,892.32
Municipal power			73,891.91	25,731.82
Street lighting	240.00	944.00	240,600.69	18,005.06
Merchandise		246.85	3,963.23	
Miscellaneous	496.55	398.48	75,662.29	6,531.65
Total earnings	8,522.43	12,741.25	3,565,496.87	343,891.78
EXPENSES				
Power purchased	4,983.60	8,350.77	2,220,739.05	226,084.95
Substation operation			49,230.07	7,640.56
Substation maintenance			5,240.69	434.00
Distribution system, operation and maintenance	327.84	220.29	102,994.03	8,835.86
Line transformer maintenance			7,601.19	469.22
Meter maintenance	21.70	14.57	41,680.37	7,472.11
Consumers' premises expenses	124.04	143.20	32,136.30	1,987.60
Street lighting, operation and maintenance	260.35	49.52	57,827.16	6,599.11
Promotion of business			22,938.13	5,496.54
Billing and collecting		551.45	104,037.43	10,952.91
General office, salaries and expenses	743.06	288.12	129,092.51	6,205.95
Undistributed expenses			45,613.30	3,430.25
Truck operation and maintenance			12,069.29	1,821.70
Interest	33.40	288.30	109,896.26	14,238.82
Sinking fund and principal payments on debentures		485.40	116,655.25	7,943.17
Depreciation	251.00	664.00	212,334.00	14,112.00
Other reserves	100.00		4,962.30	1,854.16
Total operating costs and fixed charges	6,844.99	11,055.62	3,275,047.33	325,578.91
Net surplus	1,677.44	1,685.63	290,449.54	18,312.87
Net loss				
NUMBER OF CONSUMERS				
Domestic service	116	286	58,165	5,498
Commercial light service	60	76	9,399	908
Power service	1	3	1,309	108
Total	177	365	68,873	6,514

"B"—Concluded

Hydro Municipalities for Year Ended December 31, 1937

			NORTHERN ONTARIO PROPERTIES—SUDBURY DISTRICT			
Nipigon Twp.	Port Arthur 20,045	THUNDER BAY SYSTEM SUMMARY	Capreol 1,745	Sudbury 24,440	SUDBURY DISTRICT SUMMARY	ALL SYSTEMS GRAND SUMMARY
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
3,223.05	108,211.27	302,269.19	9,060.17	177,366.47	186,426.64	12,448,345.63
2,884.02	56,533.66	123,313.74	3,954.05	148,911.93	152,865.98	6,510,685.15
220.64	724,306.16	763,419.12	....	37,401.64	37,401.64	11,063,764.43
472.81	34,967.60	61,172.23	708.97	12,011.76	12,720.73	1,731,311.34
593.00	19,353.56	37,951.62	1,800.00	20,419.55	22,219.55	1,781.363.37
....	....	....	....	....	....	22,971.02
81.94	21,191.91	27,805.50	....	2,301.30	2,301.30	607,035.54
7,475.46	964,564.16	1,315,931.40	15,523.19	398,412.65	413,935.84	34,165,476.48
3,032.16	791,763.71	1,020,880.82	5,072.58	182,943.18	188,015.76	20,532,736.85
....	21,687.37	29,327.93	17.94	3,770.10	3,788.04	490,737.94
....	3,786.41	4,220.41	....	....	....	300,389.49
243.02	13,563.26	22,642.14	1,107.57	11,583.82	12,691.39	889,990.11
....	1,642.77	2,111.99	....	786.31	786.31	81,365.18
....	6,067.07	13,539.18	210.80	4,645.21	4,856.01	343,658.47
....	....	1,987.60	....	....	....	420,366.36
171.43	6,287.10	13,057.64	440.45	6,077.81	6,518.26	364,325.53
....	2,666.90	8,163.44	....	....	....	294,574.21
....	10,642.62	21,595.53	1,453.97	14,163.22	15,617.19	980,540.10
707.51	13,974.46	20,887.92	703.06	10,814.55	11,517.61	940,890.76
55.74	4,179.06	7,665.05	60.82	52,407.25	52,468.07	476,370.44
....	1,120.98	2,942.68	....	3,123.02	3,123.02	77,995.38
325.25	7,619.44	22,183.51	670.06	10,300.54	10,970.60	1,752,287.58
547.00	3,186.50	11,676.67	1,692.06	16,713.05	18,405.11	2,429,565.06
629.00	27,618.57	42,359.57	664.00	11,565.00	12,229.00	2,252,333.72
....	4,000.00	5,854.16	65.00	15,000.00	15,065.00	77,291.92
5,711.11	919,806.22	1,251,096.24	12,158.31	343,893.06	356,051.37	32,705,419.10
1,764.35	44,757.94	64,835.16	3,364.88	54,519.59	57,884.47	1,460,057.38
....	....	....	....	....	....	....
175	4,455	10,128	302	5,403	5,705	481,610
53	803	1,764	53	884	937	74,682
2	102	212	1	170	171	12,943
230	5,360	12,104	356	6,457	6,813	569,235

STATEMENT "C"

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
					$ c.	$ c.	$ c.
Acton	1,993	131	80 c.p.	s	9.00	1,903.71	0.96
		5	80 c.p.	s	12.00		
		8	60 watt	m	4.00		
		60	100 watt	m	9.00		
		1	150 watt	m	12.00		
		4	300 watt	m	20.00		
Agincourt	....	62	100 watt	m	12.00	744.00	**
Ailsa Craig	452	63	100 watt	m	10.00	648.00	1.43
		1	200 watt	m	18.00		
Alexandria	1,926	137	100 watt	m	14.00	1,936.00	1.00
		1	200 watt	m	24.00		
Alliston	1,320	101	80 c.p.	s	17.50	2,030.03	1.54
		12	100 watt	m	17.50		
Alvinston	643	84	100 watt	m	20.00	1,854.00	2.88
		6	200 watt	m	29.00		
Amherstburg	2,879	82	100 c.p.	s	15.00	2,373.28	††
		9	250 c.p.	s	30.00		
		25	200 watt	m	20.00		
		12	300 watt	m	30.00		
Ancaster Twp.	....	32	100 watt	m	11.50	1,054.00	**
		49	150 watt	m	14.00		
Apple Hill	....	33	100 watt	m	14.50	478.50	**
Arkona	415	50	100 watt	m	20.00	1,000.00	2.41
Arthur	1,052	90	100 watt	m	16.50	1,476.78	1.40
Athens	669	40	100 watt	m	12.00	1,055.00	1.58
		23	200 watt	m	25.00		
Aylmer	1,995	185	100 watt	m	10.00	2,482.50	1.24
		24	300 watt	m	25.00		
		1	Traffic light	m	40.00		
Ayr	770	92	100 watt	m	10.00	1,028.00	1.34
		3	500 watt	m	36.00		
Baden	....	82	100 watt	m	9.00	711.00	**

NOTE: The "Cost to municipality in 1937" represents the charges billed to the municipality by the utility for street lighting service in the calendar year. This total charge differs in some cases from the total computed for the installation at the rates shown, for the following reasons:—FIRST: Certain equipment may have been in service for less than twelve months. SECOND: More equipment than shown for December 31 may have been in service earlier in the year.

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

††Certain additional street lighting costs for special service are paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
				$ c.	$ c.	$ c.
Barrie..........	8,126	475	150 c.p. *s*	9.00	6,151.00	0.76
		15	100 watt *m*	17.00		
		48	200 watt *m*	22.00		
		8	200 watt *m*	18.00		
		3	200 watt (6 mos.) *m*	15.00		
		13	300 watt *m*	25.00		
		1	500 watt *m*	30.00		
Bath...........	318	21	100 watt *m*	34.00	714.00	2.25
Beachville......	....	47	100 watt *m*	11.00	517.00	**
Beaverton......	976	106	100 watt *m*	10.00	1,317.02	1.35
		11	100 watt (6 mos.) *m*	7.00		
		6	500 watt *m*	30.00		
Beeton.........	605	65	150 c.p. *s*	16.00	1,264.00	2.09
		14	100 watt *m*	16.00		
Belle River.....	748	78	100 watt *m*	12.00	963.00	1.29
			1,800 watt, 3 mos. Decorative *m*	50cper100w per month		
Belleville.......	14,509	533	100 c.p. *s*	8.00	10,665.46	0.73
		11	250 c.p. *s*	18.00		
		52	1,000 c.p. *s*	38.00		
		189	300 watt *m*	23.00		
Blenheim.......	1,755	165	150 c.p. *s*	12.00	2,518.50	1.44
		3	400 c.p. *s*	28.00		
		12	600 c.p. *s*	37.00		
		1	Traffic light *m*	16.00		
Bloomfield......	663	60	100 c.p. *s*	11.00	660.00	1.00
Blyth..........	624	90	100 watt *m*	13.00	1,580.00	2.53
		20	200 watt *m*	20.50		
Bolton.........	569	48	100 watt *m*	12.00	1,058.52	1.86
		23	200 watt *m*	21.00		
Bothwell.......	642	66	100 watt *m*	11.00	1,293.00	2.01
		21	300 watt *m*	27.00		
Bowmanville....	3,611	177	100 c.p. *s*	10.00	3,122.66	0.86
		4	150 watt *m*	20.00		
		42	300 watt *m*	30.00		
Bradford.......	989	60	150 c.p. *s*	16.00	1,072.00	1.08
		7	100 watt *m*	16.00		
Brampton......	5,568	676	100 watt *m*	8.00	5,473.00	0.98
		2	500 watt *m*	35.00		
Brantford......	31,232	149	1,500 c.p. *s*	45.00	33,268.31	††
		3,422	100 watt *m*	7.50		
		8	250 watt *m*	10.00		
		2	300 watt *m*	16.00		
		18	750 watt *m*	37.00		
		4	750 watt *m*	46.00		

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

††Certain additional street lighting costs for special service are paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
				$ c.	$ c.	$ c.
Brantford Twp..	....	373	100 watt *m*	11.00	4,072.75	**
Brechin........	‡	33	100 watt *m*	14.00	462.00	**
Bridgeport.....	....	57	100 watt *m*	11.00	723.00	**
		12	100 watt (bridge) *m*	8.00		
Brigden........	....	46	60 watt *m*	11.00	800.00	**
		21	100 watt *m*	14.00		
Brighton.......	1,420	137	100 c.p. *s*	16.00	2,191.92	1.54
Brockville......	9,903	633	100 c.p. *s*	10.00	8,584.50	0.90
		10	200 watt *m*	19.00		
		35	3 lt. stands *m*	21.00		
		51	5 lt. stands *m*	24.00		
		13	300 watt *m*	20.00		
Brussels........	787	81	100 watt *m*	12.00	1,296.00	1.65
		18	200 watt *m*	18.00		
Burford........	....	67	100 watt *m*	10.00	670.00	**
Burgessville.....	....	24	100 watt *m*	13.00	312.00	**
Caledonia......	1,370	147	100 watt *m*	9.00	1,755.96	1.28
		20	100 watt (bridge) *m*	9.50		
		9	100 watt (twp.) *m*	13.00		
		6	200 watt *m*	14.00		
		2	300 watt *m*	21.00		
Campbellville...	....	20	100 watt *m*	24.00	480.00	**
Cannington.....	761	62	100 watt *m*	15.00	1,110.50	1.46
		1	200 watt *m*	18.50		
		3	300 watt *m*	22.00		
		3	500 watt *m*	32.00		
Capreol........	1,745	90	100 watt *m*	20.00	1,800.00	1.03
Cardinal.......	1,471	48	100 watt *m*	15.00	932.00	0.63
		12	200 watt *m*	21.00		
Carleton Place..	4,275	82	60 watt *m*	13.00	4,806.00	1.12
		102	200 watt *m*	20.00		
		68	300 watt *m*	25.00		
Cayuga........	674	81	100 watt *m*	18.00	1,458.00	2.16
		1	150 watt *m*	20.00		
Chatham.......	15,910	720	150 c.p. *s*	13.00	19,270.83	††
		19	250 c.p. *s*	16.00		
		42	600 c.p. *s*	31.00		
		35	150 c.p. orn. *s*	12.00		
		75	600 c.p. orn. *s*	30.00		
		137	1,000 c.p. orn. *s*	38.00		
		2	250 watt floodlights *m*	24.00		

‡Includes Mara and Thora townships.

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

††Certain additional street lighting costs for special service are paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
				$ c.	$ c.	$ c.
Chatsworth	321	41	100 watt *m*	15.00	615.00	1.92
Chesley	1,766	121	150 c.p. *s*	13.00	1,572.96	0.89
Chesterville	1,067	86	100 watt *m* Decorative lights *m*	12.00 442.19	1,179.40	1.10
Chippawa	1,187	98	100 watt *m*	13.00	1,178.11	0.99
Clifford	441	56 9	100 watt *m* 200 watt *m*	13.00 20.00	823.62	1.87
Clinton	1,865	145 4 29 1	150 c.p. *s* 100 watt *m* 300 watt *m* 500 watt *m*	11.00 11.00 31.00 55.00	2,101.33	1.13
Cobden	637	38 12	100 watt *m* 150 watt *m*	16.00 25.00	908.00	1.43
Cobourg	5,063	397 4 19	100 c.p. *s* 250 c.p. *s* 500 watt *m*	12.00 23.00 47.50	5,709.52	1.11
Colborne	954	118 3	60 c.p. *s* 100 watt *m*	12.00 12.00	1,452.00	1.52
Coldwater	589	51 19	100 watt *m* 200 watt *m*	11.00 17.00	884.00	1.50
Collingwood	5,498	423	150 c.p. *s*	9.00	3,792.25	0.69
Comber	....	56	100 watt *m*	12.00	662.00	**
Cookstown	....	56	150 c.p. *s*	15.00	840.00	**
Cottam	....	32	100 watt *m*	15.00	480.00	**
Courtright	286	43	100 watt *m*	18.00	774.00	2.71
Creemore	631	60	100 watt *m*	12.00	720.00	1.14
Dashwood	....	40	100 watt *m*	11.00	451.00	**
Delaware	....	22	100 watt *m*	12.00	264.00	**
Deseronto	1,287	132	100 c.p. *s*	10.00	1,320.00	1.02
Dorchester	....	68	100 watt *m*	10.00	672.55	**
Drayton	566	80	100 watt *m*	12.00	960.00	1.70
Dresden	1,468	128 15 12	100 c.p. *s* 50 watt *m* 100 watt *m*	13.00 5.70 12.00	1,876.32	1.28
Drumbo	....	39	100 watt *m*	13.00	507.00	**
Dublin	....	50	100 watt *m*	14.00	700.00	**

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
					$ c.	$ c.	$ c.
Dundalk	652	82	100 watt	*m*	15.00	1,230.00	1.89
Dundas	4,757	286	100 watt	*m*	12.00	5,518.00	††
		12	200 watt	*m*	16.00		
		54	200 watt	*m*	32.00		
		6	200 watt orn.	*m*	26.00		
		20	100 watt Memorial Square	*m*	free		
Dunnville	4,001	248	150 c.p.	*s*	10.50	3,679.65	0.92
		27	1,000 c.p.	*s*	40.00		
Durham	1,816	106	150 c.p.	*s*	16.00	1,839.96	1.01
		6	400 c.p.	*s*	24.00		
Dutton	776	114	100 watt	*m*	9.00	1,021.44	1.32
East York Twp.	....	1	60 watt	*m*	7.80	19,632.37	**
		985	100 watt	*m*	13.00		
		4	200 watt	*m*	19.50		
		2	250 watt	*m*	22.75		
		244	300 watt	*m*	26.00		
		15	500 watt	*m*	29.00		
Elmira	2,063	190	100 watt	*m*	9.00	1,834.00	0.89
		8	200 watt	*m*	12.00		
		1	500 watt	*m*	28.00		
Elmvale	....	58	100 watt	*m*	12.00	696.00	**
Elmwood	....	23	150 watt	*m*	23.00	529.00	**
Elora	1,138	82	100 watt	*m*	14.00	1,687.92	1.48
		27	200 watt	*m*	20.00		
Embro	449	56	100 watt	*m*	12.00	672.00	1.50
Erieau	238	24	100 watt	*m*	18.00	394.50	1.66
Essex	1,798	133	60 watt	*m*	7.50	2,074.08	††
		15	100 watt	*m*	10.00		
		47	300 watt	*m*	18.00		
		1	500 watt	*m*	28.00		
		7	Empty sockets	*m*	4.50		
		14	Empty sockets	*m*	1.50		
Etobicoke Twp.	....	976	100 watt	*m*	13.50	13,607.97	**
		22	100 watt	*m*	18.00		
		2	250 watt	*m*	32.00		
Exeter	1,629	3	100 watt (park)	*m*	8.50	2,711.55	1.66
		174	100 watt	*m*	9.50		
		32	300 watt	*m*	33.00		
Fergus	2,785	152	100 watt	*m*	12.00	2,719.37	0.98
		41	150 watt	*m*	14.50		
		4	Traffic lights (4 mos.)	*m*	18.00		
Finch	392	38	100 watt	*m*	12.00	456.00	1.16
Flesherton	446	53	100 watt	*m*	11.00	608.00	1.36
		1	300 watt	*m*	26.00		
Fonthill	803	71	100 watt	*m*	15.00	1,065.00	1.33

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

††Certain additional street lighting costs for special service are paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
				$ c.	$ c.	$ c.
Forest	1,586	131	60 watt *m*	7.00	2,321.00	1.46
		123	100 watt *m*	11.00		
		3	100 watt *m* (Station platform)	17.00		
Fort William	24,231	378	100 c.p. *s*	8.00	18,005.06	0.74
		58	400 c.p. *s*	18.00		
		78	600 c.p. *s*	28.00		
		238	1,000 c.p. *s*	38.00		
		187	100 watt *m*	8.00		
		64	300 watt *m*	23.00		
Galt	14,119	975	80 c.p. *s*	9.00	15,660.50	1.11
		289	100 watt *m*	6.50		
		100	100 watt *m*	8.00		
		27	100 watt *m*	16.00		
		60	150 watt *m*	9.00		
		18	150 watt (bridge) *m*	8.50		
		40	150 watt *m*	18.00		
		31	150 watt *m*	21.00		
		4	300 watt *m*	16.50		
		80	300 watt *m*	17.00		
		12	300 watt *m*	26.00		
Georgetown‡	2,189	156	100 watt *m*	11.00	2,650.89	......
		22	100 watt *m*	13.00		
		1	300 watt *m* (floodlight)	19.00		
		21	300 watt *m*	30.00		
Glencoe	778	113	100 watt *m*	14.00	1,962.00	2.52
		19	200 watt *m*	20.00		
Goderich	4,336	325	100 c.p. *s*	9.00	4,001.84	0.92
		3	100 c.p. (6 mos.) *s*	9.00		
		8	100 watt *m*	15.00		
		4	250 watt *m*	18.00		
		8	500 watt stands *m*	37.00		
		16	600 watt stands *m*	52.00		
Grand Valley	582	39	100 watt *m*	17.00	988.00	1.70
		13	300 watt *m*	25.00		
Granton	....	37	100 watt *m*	10.00	370.00	**
Gravenhurst	1,996	134	100 c.p. *s*	10.00	2,092.98	1.05
		22	50 watt *m*	7.50		
		10	50 watt (6 mos.) *m*	4.00		
		8	100 watt (6 mos.) *m*	6.00		
		2	100 watt *m*	10.00		
		16	300 watt *m*	30.00		
Guelph	21,455	12	50 watt *m*	4.00	18,867.05	0.88
		6	60 watt *m*	4.00		
		1,376	100 watt *m*	10.00		
		172	200 watt *m*	12.50		
		35	300 watt *m*	18.75		
		9	500 watt *m*	25.00		
		53	500 watt (220 V.) *m*	34.00		
		1	Airport beacon *m*	60.00		

‡Includes Glen Williams.

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
				$ c.	$ c.	$ c.
Hagersville.....	1,345	115	100 watt *m*	14.00	2,050.00	1.52
		20	300 watt *m*	22.00		
Hamilton.......	154,020	6	40 watt *m*	4.50	123,775.35	0.80
		96	50 watt *m*	6.00		
		8,283	100 watt *m*	7.50		
		1,168	200 watt *m*	11.00		
		5	300 watt *m*	18.00		
		28	300 watt *m*	26.00		
		77	300 watt *m*	32.00		
		27	300 watt *m*	34.00		
		480	500 watt *m*	32.00		
		597	500 watt *m*	37.00		
		65	750 watt *m*	55.00		
		3	Danger signals *m*	28.00		
		2	1,200 watt stand's *m*	70.00		
Hanover.......	3,061	93	150 c.p. *s*	22.00	2,952.54	0.96
		16	300 c.p. *s*	27.00		
		4	100 watt *m*	22.00		
		13	200 watt *m*	27.00		
			Decorative lighting *m*	— $5.91 per month		
Harriston.......	1,273	76	150 c.p. *s*	12.00	1,551.00	1.22
		4	100 watt *m*	12.00		
		13	150 watt *m*	12.00		
		29	200 watt *m*	15.00		
Harrow........	918	1	100 watt *m*	12.00	1,319.67	1.44
		80	200 watt *m*	16.50		
Hastings.......	811	63	100 watt *m*	16.00	1,221.40	1.51
		8	200 watt *m*	20.00		
Havelock.......	1,208	63	100 c.p. *s*	16.00	1,533.00	1.27
		22	250 c.p. *s*	25.00		
Hensall........	719	84	100 watt *m*	12.00	1,006.00	1.40
Hespeler........	2,861	91	150 c.p. *s*	12.00	3,107.00	1.09
		34	250 c.p. *s*	16.00		
		15	400 c.p. stand's *s*	30.00		
		51	150 watt *m*	11.00		
		10	300 watt *m*	21.50		
		7	300 watt stand's—park *m*	35.00		
Highgate.......	327	40	100 watt *m*	11.00	567.00	1.73
		6	200 watt *m*	17.00		
		1	300 watt *m*	25.00		
Holstein........	....	14	100 watt *m*	25.00	350.00	**
Humberstone...	2,563	107	100 watt *m*	12.50	1,481.79	0.58
		16	200 watt *m*	17.50		
Huntsville......	2,700	47	100 c.p. *s*	12.00	2,473.05	0.92
		26	150 c.p. *s*	16.00		
		28	250 c.p. *s*	20.00		
		68	75 watt *m*	10.00		
		97	75 watt orn. stand's *m*	42 cts. per kw.		

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
				$ c.	$ c.	$ c.
Ingersol	5,139	322	100 c.p. *s*	10.00	4,667.34.	††
		2	600 c.p. *s*	28.00		
		26	1,000 c.p. *s*	35.00		
		2	1,000 c.p. (church) *s*	25.00		
		13	100 c.p. (6 mos.) *s*	5.50		
		12	300 watt *m*	30.00		
Jarvis	504	78	100 watt *m*	11.00	821.33	1.63
Kemptville	1,178	77	100 watt *m*	18.00	1,729.75	1.47
		17	150 watt *m*	21.00		
		1	250 watt *m*	25.00		
Kincardine	2,468	152	150 c.p. *s*	20.00	4,432.50	1.80
		25	100 watt *m*	15.00		
		5	100 watt (6 mos.) *m*	15.00		
		37	200 watt *m*	25.00		
		1	1,000 watt (6 mos.) *m*	85.00		
Kingston	23,513	102	100 c.p. *s*	12.00	15,977.70	0.68
		268	600 c.p. *s*	35.00		
		258	600 c.p. *s*	46.00		
Kingsville	2,282	112	150 c.p. *s*	10.50	2,832.00	††
		25	250 c.p. *s*	15.00		
		122	100 watt *m*	10.50		
Kirkfield	....	24	100 watt *m*	20.00	480.00	**
Kitchener	32,650	2,058	80 c.p. *s*	9.00	33,251.04	††
		129	250 c.p. *s*	13.00		
		18	1,000 c.p. *s*	25.00		
		47	16 c.p. Fire alarms	7.00		
		204	100 watt *m*	9.00		
		458	200 watt *m*	15.00		
		50	300 watt *m*	17.50		
		109	500 watt *m*	25.00		
Lakefield	1,337	113	100 watt *m*	15.00	1,736.62	1.30
Lambeth	....	10	100 watt *m*	11.00	722.66	**
		20	300 watt *m*	31.00		
Lanark	623	38	100 watt *m*	15.00	570.00	0.91
Lancaster	608	41	100 watt *m*	20.00	825.00	1.36
La Salle‡	782	66	Empty sockets *m*	5.00	330.00	......
Leamington	5,340	176	250 c.p. *s*	15.00	5,414.58	††
		4	400 c.p. *s*	19.00		
		193	100 watt *m*	14.00		
Lindsay	7,116	419	100 c.p. *s*	11.50	6,423.20	0.90
		27	1,000 c.p. *s*	60.00		

‡Lights not in use.

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

††Certain additional street lighting costs for special service are paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
				$ c.	$ c.	$ c.
Listowel	2,819	310	100 watt *m*	11.00	3,938.83	††
		8	200 watt *m*	25.00		
		26	300 watt *m*	30.00		
		3	500 watt *m*	35.00		
London	73,091	8	150 c.p. *s*	10.00	56,556.93	††
		1,945	150 c.p. *s*	11.00		
		116	400 c.p. *s*	18.00		
		305	400 c.p. *s*	24.00		
		33	600 c.p. *s*	28.00		
		277	600 c.p. *s*	30.00		
		2	50 watt *m*	5.00		
		183	100 watt *m*	10.00		
		6	100 watt *m*	11.00		
		4	150 watt *m*	12.00		
		12	200 watt *m*	9.34		
		64	200 watt *m*	14.00		
		533	300 watt *m*	18.00		
		40	300 watt *m*	20.00		
		10	500 watt *m*	25.00		
		46	500 watt *m*	40.00		
London Twp.		63	100 watt *m*	12.00	944.50	**
		9	100 watt (8 mos.) *m*	12.00		
		1	200 watt *m*	16.50		
		10	300 watt (4 mos.) *m*	30.00		
Long Branch	4,099	304	100 watt *m*	13.00	3,945.56	0.96
Lucan	613	71	100 watt *m*	14.00	994.02	1.62
Lucknow	1,068	78	100 watt *m*	21.00	1,691.90	1.58
		17	200 watt *m*	31.00		
Lynden		44	100 watt *m*	10.00	440.00	**
Madoc	1,253	394	25 watt *m*	3.00	1,500.00	1.20
		65	100 watt *m*	5.00		
		1	300 watt *m*	11.00		
Markdale	802	90	150 c.p. *s*	10.00	900.00	1.12
Markham	1,112	112	100 watt *m*	12.00	1,344.00	1.21
Marmora	948	44	75 watt *m*	14.00	1,361.00	1.43
		24	100 watt *m*	16.00		
		19	150 watt *m*	19.00		
Martintown		15	100 watt *m*	13.00	195.00	**
Maxville	741	66	150 c.p. *s*	18.00	1,175.25	1.59
Meaford	2,719	182	150 c.p. *s*	11.00	2,975.00	1.09
		28	100 watt *m*	11.00		
		35	200 watt *m*	19.00		
Merlin		44	100 watt *m*	15.00	652.50	**

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

††Certain additional street lighting costs for special service are paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
				$ c.	$ c.	$ c.
Merritton......	2,543	310	100 watt *m*	9.00	3,342.83	1.31
		26	200 watt *m*	21.00		
Midland........	6,690	328	150 c.p. *s*	11.00	6,376.00	0.95
		52	100 watt *m*	11.00		
		30	300 watt *m*	22.00		
		8	300 watt (6 mos.) *m*	12.00		
		36	500 watt *m*	40.00		
Mildmay.......	750	46	100 watt *m*	11.00	731.00	0.97
		11	150 watt *m*	18.00		
Milton.........	1,785	125	100 watt *m*	9.50	2,031.08	1.14
		25	300 watt *m*	30.00		
Milverton......	987	97	100 watt *m*	9.00	1,015.50	1.03
		12	200 watt *m*	12.00		
Mimico........	6,876	330	100 watt *m*	12.00	7,223.14	1.05
		90	200 watt *m*	20.00		
		64	300 watt *m*	26.00		
Mitchell........	1,577	188	150 c.p. *s*	9.00	2,120.25	1.35
		27	300 watt *m*	29.00		
Moorefield......	....	25	100 watt *m*	14.00	350.00	**
Mount Brydges.	....	53	100 watt *m*	10.00	547.00	**
		1	200 watt *m*	17.00		
Mount Forest...	1,815	120	150 c.p. *s*	10.00	2,093.67	1.15
		39	250 c.p. *s*	13.00		
		37	100 watt *m*	10.00		
		3	300 watt *m*	28.00		
Napanee.......	3,061	153	100 watt *m*	12.00	4,198.77	1.37
		2	250 watt *m*	28.00		
		2	250 watt *m*	30.00		
		40	300 watt *m*	34.00		
		5	300 watt stand's *m*	27.00		
		21	400 watt clusters *m*	36.00		
Neustadt.......	451	39	150 c.p. *s*	20.00	780.00	1.73
Newbury.......	276	47	100 watt *m*	15.00	705.00	2.55
Newcastle‡.....	675	49	60 watt *m*	14.00	660.00	......
		2	100 watt *m*	17.00		
New Hamburg..	1,464	165	100 watt *m*	9.00	2,217.00	1.51
		61	200 watt *m*	12.00		
New Toronto...	6,848	122	75 watt *m*	13.00	7,329.96	1.07
		20	150 watt *m*	15.50		
		15	200 watt *m*	17.00		
		126	300 watt *m*	24.00		
		14	300 watt *m*	22.00		
		83	300 watt *m*	21.00		
		2	1,000 watt *m*	52.00		

**Population not shown in Government statistics. *s* Series system. *m* Multiple system

‡Eleven months revenue.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
				$ c.	$ c.	$ c.
Niagara Falls...	18,747	827	100 c.p. *s*	11.00	27,358.84	1.46
		9	250 c.p. *s*	13.00		
		64	600 c.p. *s*	18.00		
		235	600 c.p. *s*	37.00		
		196	1,000 c.p. *s*	42.00		
		4	100 watt *m*	11.00		
Niagara-on-the-Lake	1,563	223	100 watt *m*	11.00	2,910.52	1.86
		17	200 watt *m*	18.00		
		12	300 watt *m*	20.00		
Nipigon........	....	29	100 watt *m*	13.00	593.00	**
		9	200 watt *m*	24.00		
North York Twp........	....	81	100 watt *m*	12.00	3,953.57	**
		20	100 watt *m*	13.00		
		32	100 watt *m*	13.50		
		12	100 watt *m*	15.00		
		10	100 watt *m*	16.50		
		1	100 watt *m*	17.70		
		1	100 watt *m*	18.00		
		65	200 watt *m*	23.00		
		1	400 watt (floodlight) *m*	31.00		
		1	400 watt (mercury) *m*	43.00		
		2	1,000 watt (floodlight) *m*	65.00		
		1	100 watt Police sign *m*	12.00		
		1	Traffic light *m*	8.00		
		1	Traffic light *m*	30.00		
Norwich........	1,174	114	100 watt *m*	10.00	2,120.00	1.81
		28	400 watt *m*	35.00		
Norwood.......	753	87	100 c.p. *s*	18.00	1,566.00	2.08
Oil Springs.....	472	41	100 watt *m*	18.00	768.00	1.63
		1	300 watt (6 mos.) *m*	30.00		
Omemee........	579	48	100 c.p. *s*	14.00	1,002.00	1.73
		4	100 watt *m*	12.50		
		10	250 watt *m*	28.00		
Orangeville.....	2,479	100	150 c.p. *s*	12.00	3,016.04	1.22
		48	250 c.p. *s*	18.00		
		38	300 watt *m*	25.00		
Oshawa........	24,692	855	100 c.p. *s*	11.00	11,935.37	0.48
		1	1,000 c.p. *s*	27.00		
		48	100 watt *m*	12.00		
		111	150 watt *m*	13.00		
		30	200 watt *m*	18.00		

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
				$ c.	$ c.	$ c.
Ottawa.........	141,903	767	100 c.p. (driveway) *s*	6.00	77,334.92	0.54
		356	100 c.p. *s*	7.00		
		856	400 c.p. *s*	25.00		
		875	600 c.p. *s*	35.00		
		59	Arcs........... *s*	45.00		
		2,910	100 watt (white way) *m*	48c. per ft.		
		39	100 watt (residential) *m*	5½c. per ft.		
Otterville.......	....	57	100 watt *m*	11.00	815.67	**
		13	200 watt *m*	16.00		
Owen Sound....	13,100	441	150 c.p. *s*	13.00	13,083.55	1.00
		335	400 c.p. *s*	16.00		
		12	600 c.p. *s*	23.00		
		43	1,000 c.p. *s*	37.00		
Paisley.........	792	90	100 watt *m*	14.00	1,260.00	1.59
Palmerston.....	1,410	66	80 c.p. *s*	9.00	2,609.77	1.85
		1	400 c.p. *s*	25.00		
		11	60 watt *m*	9.00		
		25	100 watt *m*	10.00		
		9	150 watt *m*	10.00		
		4	250 watt *m*	25.00		
		19	300 watt *m*	25.00		
		1	500 watt *m*	35.00		
		32	300 watt stand's *m*	30.00		
Paris...........	4,315	474	100 c.p. *s*	8.50	5,543.50	1.28
		10	400 c.p. *s*	28.00		
		33	500 c.p. *s*	35.00		
		2	60 watt *m*	7.00		
		1	500 watt (6 mos.) *m*	35.00		
			Decorative light *m*	48.00		
Parkhill........	997	88	100 watt *m*	14.00	1,577.04	1.58
		15	200 watt *m*	23.00		
Penetanguishene	4,061	191	150 c.p. *s*	11.00	2,276.00	0.56
		5	200 watt *m*	15.00		
		5	300 watt *m*	20.00		
Perth..........	4,184	82	100 c.p. *s*	17.00	2,440.92	0.58
		12	250 c.p. *s*	27.00		
		7	400 c.p. *s*	30.00		
		13	600 c.p. *s*	45.00		
Peterborough...	23,072	122	60 watt *m*	12.00	22,193.20	0.96
		372	100 watt *m*	13.00		
		605	300 watt *m*	20.00		
		85	300 watt *m*	45.00		

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
				$ c.	$ c.	$ c.
Petrolia........	2,720	149	150 c.p. *s*	12.00	2,702.00	0.99
		24	600 c.p. *s*	38.00		
Picton.........	3,481	239	100 c.p. *s*	9.00	3,430.35	0.99
		85	250 c.p. *s*	15.00		
Plattsville......	....	34	100 watt *m*	12.00	408.00	**
Point Edward...	1,252	100	150 c.p. *s*	13.00	1,599.96	1.28
		15	250 c.p. *s*	20.00		
Port Arthur.....	20,045	2,709	100 watt *m*	5.00	19,353.56	0.92
		232	300 watt *m*	10.00		
		208	500 watt *m*	15.00		
Port Colborne...	6,196	15	400 c.p. *s*	25.00	7,998.58	††
		78	600 c.p. *s*	30.00		
		227	100 watt *m*	12.00		
		34	100 watt *m*	14.00		
		132	200 watt *m*	18.00		
Port Credit.....	1,755	275	100 watt *m*	10.00	2,750.00	1.57
Port Dalhousie..	1,459	129	100 watt *m*	12.00	1,578.00	1.08
		2	Flood lights *m*	15.00		
Port Dover.....	1,665	201	100 watt *m*	10.00	2,682.12	1.61
		15	300 watt *m*	18.00		
		34	100 watt (Summer) *m*	6.00		
		4	300 watt (Summer) *m*	10.00		
		236	25 watt Decorative *m*	0.67		
Port Elgin......	1,267	110	100 watt (6 mos.) *m*	14.00	2,389.32	1.89
		165	100 watt (4 mos.) *m*	14.00		
		114	100 watt (2 mos.) *m*	14.00		
		26	200 watt *m*	22.00		
Port Hope......	4,564	392	100 c.p. *s*	11.00	4,311.96	0.94
Port McNicoll...	933	62	100 watt *m*	10.00	908.00	0.97
		16	200 watt *m*	18.00		
Port Perry......	1,124	98	100 watt *m*	15.00	1,470.00	1.31
Port Rowan....	666	55	100 watt *m*	18.00	990.00	1.49
Port Stanley....	741	217	100 watt *m*	11.00	2,361.42	3.19
Prescott........	2,942	169	100 watt *m*	10.00	3,475.00	1.18
		105	200 watt *m*	17.00		

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

††Certain additional street lighting costs for special service are paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
					$ c.	$ c.	$ c.
Preston........	6,294	135	150 c.p.	*s*	11.00	5,509.00	0.88
		214	100 watt	*m*	11.00		
		9	250 watt	*m*	20.00		
		40	500 watt	*m*	32.00		
		6	500 watt stand's	*m*	35.00		
Priceville.......	....	14	100 watt	*m*	40.00	560.00	**
Princeton.......	....	39	100 watt	*m*	12.00	468.00	**
Queenston......	....	19	100 watt	*m*	16.00	304.12	**
Richmond......	408	26	100 watt	*m*	16.00	416.00	1.02
Richmond Hill..	1,268	100	75 watt	*m*	11.00	1,472.00	1.16
		19	100 watt	*m*	12.00		
		9	200 watt	*m*	16.00		
Ridgetown......	1,983	189	150 c.p.	*s*	9.00	3,202.92	††
		1	1,000 c.p.	*s*	40.00		
		78	100 watt	*m*	9.00		
		2	200 watt	*m*	18.00		
		2	250 watt	*m*	20.00		
		19	500 watt	*m*	36.00		
Ripley.........	442	43	100 watt	*m*	20.00	1,070.00	2.42
		6	200 watt	*m*	35.00		
Riverside.......	5,017	132	75 watt	*m*	12.00	2,900.04	††
		38	150 watt	*m*	16.00		
			Empty sockets	*m*	708.00		
Rockwood......	....	86	100 watt	*m*	9.00	774.00	**
Rodney........	724	69	100 watt	*m*	10.00	1,086.00	1.50
		22	200 watt	*m*	18.00		
Rosseau........	315	40	100 watt	*m*	30.00	1,160.25	3.68
Russell.........	....	47	100 watt	*m*	16.00	752.00	**
St. Catharines.	26,834	2,181	100 watt	*m*	8.00	25,777.92	††
		19	100 watt	*m*	10.00		
		149	200 watt	*m*	11.00		
		72	200 watt	*m*	18.00		
		10	300 watt	*m*	26.00		
		7	500 watt	*m*	20.00		
		96	500 watt	*m*	34.00		
		8	1,000 watt	*m*	40.00		
			10.86 H.P. Bridge lights	*m*	$24.75 per H.P.		
St. George......	....	39	100 watt	*m*	10.00	412.17	**
		1	750 watt	*m*	38.00		
St. Jacobs......	....	46	100 watt	*m*	10.00	460.00	**
St. Marys......	4,023	234	100 c.p.	*s*	11.00	4,954.23	1.23
		106	250 c.p.	*s*	14.00		
		19	150 watt	*m*	12.00		
		32	300 watt	*m*	22.00		

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

††Certain additional street lighting costs for special service are paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
				$ c.	$ c.	$ c.
St. Thomas.....	16,088	1,092	100 c.p. *s*	9.00	14,847.15	††
		28	250 c.p. *s*	13.00		
		1	600 c.p. *s*	32.00		
		114	600 c.p. *s*	34.00		
		25	60 watt (5 mos.) *m*	3.00		
		6	60 watt *m*	4.50		
		39	100 watt (5 mos.) *m*	5.00		
		3	200 watt (5 mos.) *m*	10.00		
		22	300 watt *m*	22.00		
Sarnia.........	18,230	1,052	150 c.p. *s*	12.00	18,805.22	††
		54	250 c.p. *s*	16.50		
		72	400 c.p. *s*	22.00		
		77	600 c.p. *s*	35.00		
		14	600 c.p. *s*	45.00		
		7	100 watt *m*	12.00		
		8	150 watt *m*	16.50		
		5	250 watt *m*	22.00		
		14	300 watt *m*	32.00		
Scarboro Twp...	....	213	100 c.p. *s*	12.00	14,929.70	**
		14	Empty sockets *s*	9.00		
		2	250 c.p.. *s*	17.00		
		19	40 watt *m*	12.00		
		2	60 watt *m*	18.00		
		423	100 watt *m*	12.00		
		26	Empty sockets *m*	9.00		
		8	200 watt *m*	17.00		
		10	200 watt *m*	21.00		
		188	300 watt *m*	24.00		
		5	300 watt *m*	26.00		
		127	Empty sockets *m*	14.50		
Seaforth........	1,717	119	100 c.p. *s*	10.50	1,783.33	1.04
		20	300 watt *m*	25.00		
		14	300 watt (1 mos.) *m*	29.00		
Shelburne......	1,114	96	150 c.p. *s*	11.00	1,056.00	0.95
Simcoe.........	5,614	272	100 c.p. *s*	11.00	4,620.10	††
		7	250 c.p. *s*	15.00		
		27	1,000 c.p. *s*	40.00		
		8	150 watt *m*	11.00		
		8	200 watt *m*	15.00		
		6	200 watt orn. *m*	24.00		
		1	500 watt *m*	53.00		
		1	1,000 watt *m*	60.00		
Smiths Falls....	7,623	18	60 watt *m*	9.50	8,172.40	1.07
		104	100 watt *m*	18.00		
		1	200 watt *m*	25.00		
		256	300 watt *m*	25.00		
Southampton..	1,255	116	100 watt *m*	13.00	2,319.96	1.85
		32	250 watt *m*	21.00		
		39	60 watt (3 mos.) *m*	12.00		
		1	Decorative string *m*	36.00		

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

††Certain additional street lighting costs for special service are paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
				$ c.	$ c.	$ c.
Springfield......	365	53	100 watt *m*	11.00	569.28	1.56
Stamford Twp...	....	858	100 watt *m*	9.00	7,722.00	**
Stayner........	999	80 20	100 c.p. *s* 200 watt *m*	12.00 18.00	1,320.00	1.32
Stirling.........	935	77 30 2 15	100 c.p. *s* 150 watt *m* 300 watt *m* 500 watt *m*	10.00 10.00 24.75 32.50	1,607.70	1.72
Stouffville......	1,155	126	100 watt *m*	12.00	1,512.00	1.31
Stratford.......	17,555	871 74 116 6 63 4 4	100 c.p. *s* 600 c.p. *s* 600 c.p. *s* 600 c.p. *s* 1,000 c.p. *s* 100 watt *m* 500 watt *m*	10.00 25.00 30.00 35.00 34.00 10.00 34.00	16,567.92	0.94
Strathroy.......	2,911	300 21 17	100 c.p. *s* 250 c.p. *s* 600 watt *m*	9.00 15.00 62.00	4,053.96	1.39
Streetsville.....	636	42 28 13	100 watt *m* 200 watt *m* 300 watt *m*	9.50 11.50 16.50	935.50	1.47
Sudbury........	24,440	738 49 10 42 10 43 49 45	100 c.p. *s* 250 c.p. *s* 600 c.p. *s* 600 c.p. stand's *s* 1,000 c.p. *s* 1,000 c.p. stand's *s* 1,000 c.p. *s* 1,500 c.p. *s*	12.00 16.00 28.00 50.00 35.00 57.00 65.00 65.00	20,419.55	0.84
Sunderland....	....	29 4	100 watt *m* 500 watt *m*	20.00 35.00	720.00	**
Sutton.........	831	119 20 38	100 watt *m* 200 watt *m* Decorative strings (3 mos.) *m*	13.00 17.00 13.00	2,010.50	2.42
Tara...........	471	51 16	100 watt *m* 300 watt *m*	14.00 36.00	1,332.00	2.83
Tavistock......	1,034	83 39	100 watt *m* 200 watt *m*	10.00 12.00	1,293.84	1.25
Tecumseh......	2,432	18 59	400 c.p. *s* 100 watt *m*	24.00 14.00	1,281.20	††
Teeswater......	837	42 20 80	150 c.p. *s* 300 c.p. *s* 25 watt (7 mos.) *m*	15.00 29.00 66c. per 100 w. per month	1,293.16	1.54

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

††Certain additional street lighting costs for special service are paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
				$ c.	$ c.	$ c.
Thamesford	....	48	100 watt *m*	11.00	522.50	**
Thamesville	788	68	100 watt *m*	9.00	1,214.31	1.54
		33	200 watt *m*	14.00		
		7	200 watt *m*	18.00		
		10	Decorative strings *m*	53c. per 100 W per month		
Thedford	585	69	100 watt *m*	15.00	1,035.00	1.77
Thorndale	....	32	100 watt *m*	12.00	384.00	**
Thornton	....	22	100 watt *m*	40.00	880.00	**
Thorold	4,959	383	75 watt *m*	7.50	3,333.42	0.67
		2	100 watt *m*	8.00		
		35	200 watt *m*	12.00		
		2	300 watt *m*	15.00		
Tilbury	1,992	103	100 watt *m*	12.00	1,736.00	0.87
		25	200 watt *m*	20.00		
Tillsonburg	3,702	271	100 c.p. *s*	9.00	4,663.89	1.26
		1	250 c.p. *s*	13.00		
		8	300 watt *m*	32.00		
		44	500 watt *m*	42.00		
		1	Traffic light *m*	18.36		
Toronto	645,462	46,411	100 watt *m*	8.00–10.00	511,912.28	0.79
		4,015	200 watt *m*	14.00–20.00		
		67	250 watt *m*	17.00		
		1,423	300 watt *m*	20.00–25.00		
		180	500 watt *m*	35.00–40.00		
		5	1,000 watt *m*	70.00		
		391	1-lt. stds. 300 w. *m*	40.00		
		263	1-lt. stds., 500 w. *m*	47.50		
		244	5-lt. stds., 100 w. *m*	47.50		
Toronto Twp.	....	415	100 watt *m*	12.00	4,984.18	**
		1	Intersection light *m*	43.20		
Tottenham	540	49	150 c.p. *s*	20.00	980.00	1.82
Trenton	6,440	48	600 c.p. *s*	65.00	6,583.99	1.02
		309	100 watt *m*	11.00		
		1	500 watt *m*	65.00		
Tweed	1,311	131	100 c.p. *s*	15.00	1,906.23	1.45
Uxbridge	1,483	132	100 watt *m*	12.00	1,720.00	1.16
		6	100 watt (5 mos.) *m*	8.00		
		1	200 watt *m*	16.00		
		1	200 watt (5 mos.) *m*	12.00		
		3	300 watt *m*	20.00		
Victoria Harbor	1,043	78	100 watt *m*	8.50	663.00	0.63
Walkerton	2,350	118	150 c.p. *s*	14.00	2,707.00	1.15
		39	250 c.p. *s*	24.50		
		1	50 watt *m*	6.00		
		8	100 watt *m*	14.00		

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
				$ c.	$ c.	$ c.
Wallaceburg....	4,660	190	150 c.p. *s*	12.00	4,194.00	0.90
		12	400 c.p. *s*	22.00		
		50	300 watt *m*	33.00		
Wardsville......	249	36	75-100 watt *m*	20.00	720.00	2.89
Warkworth.....	....	39	100 watt *m*	16.00	653.44	**
		2	200 watt *m*	28.00		
Waterdown.....	875	75	100 watt *m*	10.00	886.00	1.01
		8	200 watt *m*	17.00		
Waterford......	1,250	4	100 watt *m*	12.00	1,488.00	1.19
		1	100 watt (3 mos.) *m*	12.00		
		157	100 watt *m*	8.00		
		10	200 watt *m*	15.00		
		1	500 watt *m*	25.00		
Waterloo.......	8,266	362	80 c.p. *s*	8.00	7,667.41	††
		120	100 c.p. *s*	10.00		
		93	150 watt *m*	10.00		
		5	200 watt *m*	12.00		
		18	300 watt *m*	21.00		
		3	500 watt *m*	30.00		
		9	500 watt *m*	35.00		
		10	300 watt 3lt. stds. *m*	25.00		
		44	450 watt 5-lt. stds. *m*	36.00		
Watford........	941	90	100 watt *m*	12.50	1,344.96	1.43
		11	200 watt *m*	20.00		
Waubaushene...	....	46	100 watt *m*	9.00	464.00	**
		10	100 watt (5 mos.) *m*	5.00		
Welland........	10,540	177	400 c.p. *s*	30.00	11,000.25	††
		14	400 c.p. park *s*	30.00		
		432	100 watt *m*	11.00		
		30	200 watt *m*	18.00		
		6	300 watt *m*	30.00		
		4	500 watt *m*	28.00		
		6	Empty sockets *m*	18.00		
Wellesley.......	....	60	100 watt *m*	11.00	660.00	**
Wellington.....	872	83	100 c.p. *s*	12.00	996.00	1.14
West Lorne.....	769	84	100 watt *m*	10.00	1,020.00	1.33
		10	200 watt *m*	18.00		
Weston........	5,028	421	100 c.p. *s*	7.50	7,265.67	1.45
		15	100 c.p. *s*	9.50		
		111	600 c.p. *s*	30.00		
		20	300 watt *m*	11.00		
		5	5 lt. stand's *m*	21.00		
		2	Municipal signs *m*	110.00		
Westport.......	720	2	50 watt *m*	15.00	1,310.00	1.82
		64	100 watt *m*	20.00		

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

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STATEMENT "C"—Concluded

Street Lighting Installation in Hydro Municipalities, December 31, 1937; showing Rate per Lamp, Cost to Municipality in 1937, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Interim rate per lamp per annum	Cost to municipality in 1937	Cost per capita
				$ c.	$ c.	$ c.
Wheatley	724	64	100 watt *m*	13.00	1,472.00	2.03
		40	150 watt *m*	16.00		
Whitby	3,778	123	80 c.p. *s*	11.00	4,051.56	1.07
		73	100 c.p. *s*	12.00		
		165	100 watt *m*	9.50		
		3	150 watt *m*	10.00		
		3	500 watt *m*	15.00		
Wiarton	1,766	104	100 watt *m*	16.00	2,362.35	1.34
		26	200 watt *m*	28.00		
Williamsburg	....	16	100 watt *m*	15.00	240.00	**
Winchester	1,029	118	100 watt *m*	8.00	944.00	0.92
Windermere	146	13	100 watt *m*	30.00	390.00	2.67
Windsor	101,435	956	100 c.p. *s*	11.50	102,535.46	††
		99	250 c.p. *s*	15.50		
		47	400 c.p. *s*	20.00		
		2	600 c.p. *s*	27.00		
		2,454	100 c.p. orn. *s*	13.50		
		1,039	250 c.p. orn. *s*	17.50		
		699	400 c.p. orn. *s*	22.50		
		149	100 watt *m*	8.50		
		1	150 watt *m*	11.50		
		2	200 watt *m*	13.50		
		1,509	100 watt orn. *m*	10.00		
		195	150 watt orn. *m*	13.00		
		200	200 watt orn. *m*	15.00		
Wingham	2,115	104	150 c.p. *s*	17.00	3,360.66	1.59
		25	250 c.p. *s*	30.00		
		30	200 watt *m*	30.00		
Woodbridge	763	89	100 watt *m*	10.00	989.90	1.30
		1	500 watt *m*	35.00		
Woodstock	11,040	557	100 c.p. *s*	8.00	8,391.48	0.76
		15	250 c.p. *s*	20.00		
		110	100 watt *m*	8.00		
		22	150 watt *m*	12.00		
		78	300 watt *m*	32.00		
		1	250 watt *m* floodlight (6 mos.)	12.00		
Woodville	365	33	100 watt *m*	12.00	626.00	1.71
		2	200 watt *m*	20.00		
		5	500 watt *m*	38.00		
Wyoming	516	52	100 watt *m*	15.00	780.00	1.51
Zurich	....	63	100 watt *m*	11.00	693.00	**

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

††Certain additional street lighting costs for special service are paid direct in form of debenture charges.

STATEMENT "D"

(pages 430 to 447)

Statistics relating to the Supply of Electrical Energy to Consumers in Ontario Urban Municipalities Served by The Hydro-Electric Power Commission for the year 1937

STATEMENT "E"

(pages 448 to 463)

Cost of Power to Municipalities and Rates to Consumers for Domestic Service—Commercial Light Service—Power Service in Ontario Urban Municipalities Served by The Hydro-Electric Power Commission for the year 1937

STATEMENT "D"

Statistics Relating to the Supply of Electrical Energy to Consumers in Urban Municipalities Served by The Hydro-Electric Power Commission

Regarding the results of Hydro operation from the standpoint of the consumers, the following tabulation gives much useful and interesting information. For each main class of service in each urban municipal utility receiving power at cost from the Commission, Statement "D" lists the revenue, the consumption and the number of consumers, together with unit average costs and consumptions and other pertinent data.

The policy and practice of the Commission has been, and is, to make as widespread and beneficial a distribution of electrical energy as possible, and to extend to every community that can economically be reached by transmission lines, the benefit of electrical service. Even where, in certain localities, by reason of the distance from a source of supply or on account of the small quantity of power required by the municipality, the cost per horsepower to the municipality—and, consequently, the cost of service to the consumer—must unavoidably be higher than in more favourably situated communities, service has not been withheld when the consumers were able and willing to pay the cost.

The accompanying diagram summarizes graphically certain data of Statement "D" respecting the average cost to the consumer. It will be observed that the total amount of the energy sold in municipalities where circumstances necessitate rates which result in the higher average costs to the consumer is relatively insignificant. With respect to power service, it should be noted that the statistics of Statement "D", and of the diagram, cover mainly retail power service supplied to the smaller industrial consumers. The average amount of power taken by the industrial consumers served by the municipalities is about 40 horsepower. The Commission serves certain large power consumers direct on behalf of the various systems of municipalities.

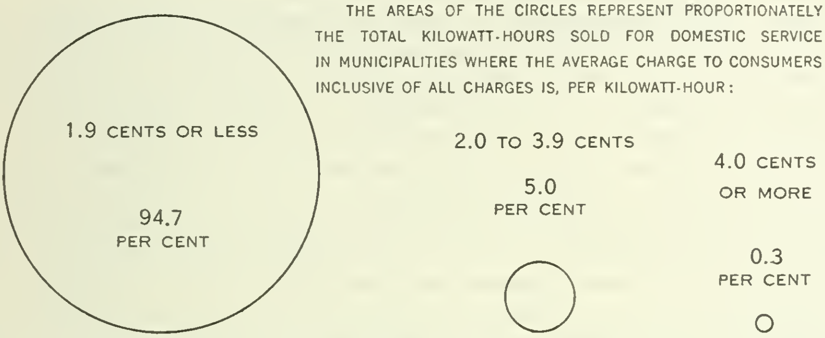
It should be kept in mind that the revenues reported in Statement "D," and used for purposes of calculating the net unit costs to the consumer, are the total revenues contributed by the consumers, and provide, in addition to the cost of power, sums specifically applicable to the retirement of capital, and also operating surplus which is in part applied to retirement of capital or extension of plant and is in part returned in cash to the consumers.

It should also be noted that average costs per kilowatt-hour or per horsepower if employed indiscriminately as a criterion by means of which to compare the rates or prices for electrical service in various municipalities, will give misleading results. The average costs per kilowatt-hour, as given in Statement "D" for respective classes of service in each municipality, are statistical results obtained by dividing the respective revenues by the aggregate kilowatt-hours sold. As such, the data reflect the combined influence of a number of factors, of which the rates or prices to consumers are but one factor. Owing to the varying influence of factors other than the rates, it is seldom found that in any two municipalities the average cost per kilowatt-hour to the consumers, even of the same classification, is in proportion to the respective rates for service. Instances even occur where for a class of consumers in one municipality, the average costs per kilowatt-hour are substantially lower than for the same class in another municipality, even though the rates are higher.

COST OF ELECTRICAL SERVICE
IN MUNICIPALITIES SERVED BY
THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

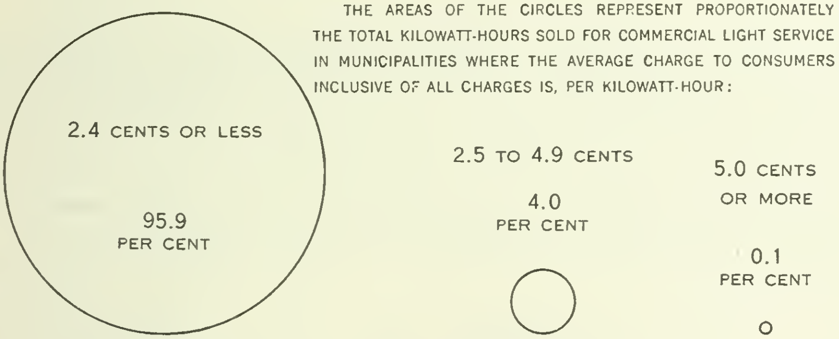
DOMESTIC SERVICE

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATT-HOURS SOLD FOR DOMESTIC SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER KILOWATT-HOUR:



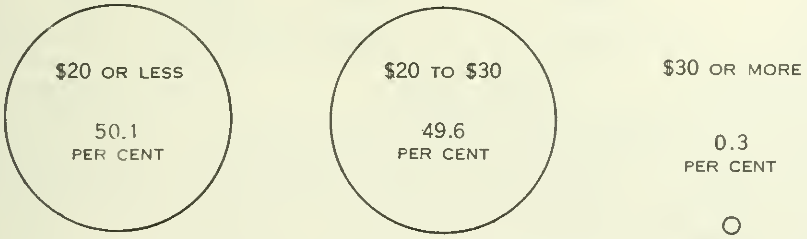
COMMERCIAL LIGHT SERVICE

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATT-HOURS SOLD FOR COMMERCIAL LIGHT SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER KILOWATT-HOUR:



POWER SERVICE SUPPLIED BY MUNICIPALITIES

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE AGGREGATE HORSEPOWER SOLD FOR POWER SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER HORSEPOWER PER YEAR:



With respect to domestic service, for example, instances may be observed where two municipalities have identical prices or rates for domestic service, but the average cost per kilowatt-hour to the consumer varies by as much as 100 per cent. Such variations are due principally to differences in the extent of utilization of the service for the operation of electric ranges, water heaters and other appliances, an indication of which is afforded by the statistics of average monthly consumption.

In the case of power service, average unit costs are still less reliable as an indication of the relative rates for service in different municipalities. In the case of hydro-electric power supplied to industries at cost, the rate schedules incorporate charges both for demand and for energy consumption, and thus, although the quantity of power taken by a consumer—that is, the demand as measured in horsepower—is the most important factor affecting costs and revenues, it is not the only one. The number of hours the power is used in the month or year—which, in conjunction with the power, determines the energy consumption, as measured in kilowatt-hours—also affects the costs and revenues. Consequently, in two municipalities charging the same rates for power service, the average cost per horsepower to the consumer will vary in accordance with the consumers' average number of hours' use of the power per month. A greater average energy consumption per horsepower increases the average cost per horsepower and decreases the average cost per kilowatt-hour to the consumer, and *vice versa.**

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*In view of the fact that the data of Statement "D" have been misinterpreted in the making of certain comparisons as to the cost of electricity in various territories, it is desirable to add a word of caution respecting their significance. Essentially, the average cost or revenue per kilowatt-hour is *not a criterion of rates* even with similar forms of rate schedules and for the same class of service. Particularly is this true when revenues and consumptions of all classes of service and of all kinds of rate schedules, are indiscriminately lumped together in order to deduce a so-called "average cost or rate per kilowatt-hour" for all services.

In one community rates for each class of service, and the cost to every consumer in each class for any given service and consumption, may be substantially higher than in another community, and yet there may be in the former community a lower "average revenue per kilowatt-hour."

EXAMPLE.—Assume sales of electrical energy by two electric utilities, A and B, in each case 10,000,000 kilowatt-hours.

Class of service	CASE A Higher rates and lower revenues per kilowatt-hour			CASE B Lower rates and higher revenues per kilowatt-hour		
	Energy sales	Rate per kw-hr.	Revenue	Energy sales	Rate per kw-hr.	Revenue
	kw-hr.	cents	$	kw-hr.	cents	$
Residence..........	1,000,000	4	40,000	3,000,000	3	90,000
Power.............	9,000,000	1	90,000	7,000,000	0.75	52,500
Total...........	10,000,000	....	130,000	10,000,000	....	142,500
Average revenue....	1.3 cents per kw-hr.			1.425 cents per kw-hr.		

It will be observed that in Case A *the rates* both for residence and for power service are 33 per cent *higher* than in Case B, but the *average revenue* per kilowatt-hour is nearly 9 per cent less.

In this instance, the explanation lies in the *relative quantities* of energy sold to each class. Service to large power consumers entails a smaller capital investment in distribution lines and equipment and lower operating costs per kilowatt-hour delivered, than does service to domestic and to commercial light consumers, and even where the rates for all classes of service are low, produces a smaller average revenue per kilowatt-hour. Consequently, if one electrical utility as compared with another sells a larger proportion of its energy for power purposes, its "average revenue per kilowatt-hour" may easily be lower than that of the other utility even though its rates for every class of service are substantially higher.

Although the derived statistics of Statement "D" are valueless as a means of comparing the *rates* in one municipality with those in another, they nevertheless fulfil a function in affording a general measure of the *economy of service* to consumers in the co-operating Ontario municipalities—an economy that has resulted primarily from the low rates themselves, and secondarily from the extensive use of the service that has been made possible by the low rates.

Actual bills rendered to typical consumers for similar service under closely comparable circumstances constitute the best basis for making comparisons. In researches respecting rates to consumers therefore the actual *rate schedules* of Statement "E" should be employed, and not statistics of average revenues per kilowatt-hour, as these are valueless for rate comparisons —and particularly so when all classifications of service are combined.

In any consideration of the relative economies of electrical service in the various municipalities—whether based on the actual rates for service as set forth in Statement "E," or on the derived statistics resulting from the rates and other factors as presented in Statement "D"—full account should be taken respectively of the influence upon costs of such factors as the size of the municipality, the distance from the source of power, the features of the power developments from which service is received, the sizes and concentrations of adjacent markets for electricity, and the sizes and characters of the loads supplied under the various classifications by the local electrical utility to the consumers.

In Statement "D" account has been taken of the sizes of municipalities by grouping them according to whether they are (i) cities—over 10,000 population; (ii) towns of 2,000 to 10,000 population; or (iii) small towns (under 2,000 population), villages, and suburban areas in townships (which are comparable in respect of conditions of supply to the smaller towns and villages). The populations are also given, and the situation of any municipality with respect to transmission lines and power supplies may be ascertained by consulting the map at the end of the Report and the diagrams of stations in Section II.

A feature of the electrical service in Ontario municipalities served by The Hydro-Electric Power Commission is the strikingly large average annual consumption per domestic consumer. There are in all more than 220 Ontario municipalities where the average annual consumption per domestic consumer is in excess of 600 kilowatt-hours. Of the 81 cities and towns with populations of 2,000 or more—in which over 85 per cent. of the domestic consumers of the undertaking are served—no less than 70 have an average annual consumption per domestic consumer in excess of 1,000 kilowatt-hours; of these, 32 have an average annual consumption per domestic consumer in excess of 1,500 kilowatt-hours, and 14 have an average annual consumption per domestic consumer in excess of 2,000 kilowatt-hours.

The high average consumption for domestic service results essentially from the policy of the undertaking in providing service "at cost"; the rate schedules designed according to this principle automatically encourage liberal use of the service. Under the standard rate schedules employed by Ontario municipalities, follow-up rates of 1 cent and 1.25 cents (less 10 per cent) are in common use, and as a rule even where the higher initial rates per kilowatt-hour obtain, it is only necessary for the domestic consumer to reach a monthly charge of from $2.00 to $3.00 to obtain the benefit of a follow-up rate of 1.8 cents net. The cost of electric cooking is thus within reach of most of the domestic consumers in Ontario. Electric water heating is also encouraged by low flat rates for continuous heaters and by installation of equipment without capital cost to the consumer.

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers For Domestic Service, for Commercial Light Service

Group I—CITIES

Municipality	System	Population	Domestic service					
			Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			$ c.	kw-hr.		kw-hr.	$ c.	cents
Belleville	E.O.	14,509	78,466.57	7,043,586	3,159	186	2.07	1.1
Brantford	Nia.	31,232	171,423.00	12,808,993	7,684	139	1.86	1.3
Chatham	Nia.	15,910	84,215.59	4,769,925	3,959	100	1.77	1.8
Fort William	T.B.	24,231	190,834.87	26,811,135	5,498	406	2.89	0.7
Galt	Nia.	14,119	87,306.24	5,730,026	3,715	129	1.96	1.5
Guelph	Nia.	21,455	105,593.83	8,832,291	5,226	141	1.68	1.2
Hamilton	Nia.	154,020	857,215.70	64,676,053	38,510	140	1.85	1.3
Kingston	E.O.	23,513	128,283.98	9,778,707	6,065	134	1.76	1.3
Kitchener	Nia.	32,650	193,802.89	14,333,718	7,464	160	2.16	1.4
London	Nia.	73,091	524,410.64	48,495,779	17,862	226	2.44	1.1
Niagara Falls	Nia.	18,747	138,864.47	10,866,449	4,442	204	2.61	1.3
Oshawa	E.O.	24,692	168,007.14	8,972,331	6,210	120	2.25	1.9
Ottawa	E.O.	141,903	495,646.48	54,895,050	13,463	340	3.07	0.9
Owen Sound	G.B.	13,100	60,404.54	3,903,079	3,301	99	1.52	1.5
Peterborough	E.O.	23,072	139,315.14	11,146,271	5,475	170	2.12	1.2
Port Arthur	T.B.	20,045	108,211.27	10,217,123	4,455	191	2.02	1.1
St. Catharines	Nia.	26,834	134,194.30	11,423,176	6,643	143	1.68	1.2
St. Thomas	Nia.	16,088	116,234.10	10,453,208	4,196	208	2.31	1.1
Sarnia	Nia.	18,230	97,459.51	5,810,543	4,658	104	1.74	1.7
Stratford	Nia.	17,555	141,205.43	9,409,825	4,247	185	2.77	1.5
Sudbury	N.P.	24,440	177,366.47	8,579,197	5,403	132	2.74	2.1
Toronto	Nia.	645,462	4,376,616.90	344,319,645	158,735	181	2.30	1.3
Toronto D.C. and 60 cycle†	......	....	19,959.90	673,165	444	126	3.75	3.0
Welland	Nia.	10,540	51,114.63	3,242,119	2,454	110	1.74	1.6
Windsor	Nia.	101,435	728,298.53	44,851,580	24,023	156	2.53	1.6
Woodstock	Nia.	11,040	70,367.03	5,639,582	3,052	154	1.92	1.2

†This—with the exception of a relatively small D.C. power load—is a special service not created by The Hydro-Electric Power Commission but acquired through the purchase of a privately owned company. It does not include street railway power.

Group II—TOWNS

Municipality	System	Population	Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
Amherstburg	Nia.	2,879	19,802.82	1,240,208	638	162	2.59	1.6
Barrie	G.B.	8,126	53,213.32	3,612,929	2,058	146	2.15	1.5
Bowmanville	E.O.	3,611	27,388.72	1,315,762	1,123	98	2.03	2.1
Brampton	Nia.	5,568	38,658.02	2,947,443	1,435	171	2.24	1.3
Brockville	E.O.	9,903	47,633.58	3,595,101	2,752	109	1.44	1.3
Carleton Place	E.O.	4,275	18,701.91	1,000,299	987	84	1.58	1.9
Cobourg	E.O.	5,063	28,748.06	1,454,369	1,245	97	1.92	2.0
Collingwood	G.B.	5,498	26,253.86	1,382,185	1,310	88	1.67	1.9
Dundas	Nia.	4,757	21,741.85	1,241,100	1,224	84	1.48	1.8
Dunnville	Nia.	4,001	12,982.71	741,498	868	71	1.25	1.8

"D"

in Ontario Municipalities Served by the Commission and for Power Service during the year 1937

Population, 10,000 or more

Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	
$ c.	kw-hr.		kw-hr.	$ c.	cents	$ c.			
50,519.55	3,397,516	719	394	5.86	1.5	43,251.73	96	2,634.4	3,974
71,003.69	7,019,246	1,116	524	5.24	1.0	*136,387.80	142	8,034.9	8,942
76,583.60	4,598,112	763	502	8.36	1.7	70,500.41	104	3,462.2	4,826
63,896.06	3,607,322	908	331	5.86	1.8	64,624.14	108	3,232.4	6,514
41,160.25	2,460,509	495	414	6.93	1.7	106,164.07	109	5,542.5	4,319
54,727.29	4,305,687	784	458	5.82	1.3	133,365.10	133	7,776.4	6,143
406,941.57	34,828,912	5,068	573	6.69	1.2	1,898,640.64	1,251	106,012.2	44,829
81,408.83	5,527,814	911	506	7.45	1.5	107,268.82	143	5,787.2	7,119
112,324.46	7,724,522	1,028	626	9.11	1.5	291,829.56	242	14,983.8	8,734
197,009.81	15,416,346	2,094	613	7.84	1.3	425,308.10	442	21,975.1	20,398
58,686.88	5,291,659	692	637	7.07	1.1	85,031.94	86	4,487.7	5,220
66,426.67	3,023,573	544	463	10.18	2.2	259,024.84	102	11,350.9	6,856
186,663.94	11,513,706	1,341	715	11.60	1.6	77,230.57	185	4,753.2	14,989
40,437.30	2,430,082	559	362	6.03	1.7	44,017.50	105	2,603.4	3,965
75,892.10	4,368,879	890	409	7.11	1.7	109,375.62	150	5,730.3	6,515
56,533.66	4,466,945	803	464	5.87	1.3	759,273.76	102	40,720.1	5,360
56,774.68	4,619,998	785	490	6.03	1.2	144,494.69	150	9,535.3	7,578
50,346.19	3,886,399	633	512	6.63	1.3	57,699.43	76	3,619.3	4,905
48,145.58	3,132,636	638	409	6.29	1.5	168,681.88	83	6,562.0	5,379
55,711.89	2,903,183	601	402	7.72	1.9	62,074.05	123	2,947.8	4,971
148,911.93	3,605,816	884	340	14.04	4.1	49,413.40	170	1,815.6	6,457
2,735,567.73	159,895,369	24,356	547	9.36	1.7	‡3,678,090.50	4,403	156,486.0	187,494
81,357.95	1,942,993	685	236	9.90	4.2	364,633.67	725	12,874.0	1,854
32,008.80	2,143,436	429	416	6.22	1.5	88,749.68	80	4,339.5	2,963
336,424.55	20,341,462	3,225	526	8.69	1.7	514,123.99	467	23,789.7	27,715
38,494.15	2,714,955	465	487	6.90	1.4	84,404.21	92	5,220.8	3,609

NOTE—The above group of 25 cities utilizes about 80 per cent of the power distributed by the Commission to Ontario municipalities.

*Includes only 25-cycle data. ‡Does not include street railway power.

of Population, 2,000 or more

6,564.65	326,765	123	221	4.45	2.0	5,649.37	14	219.7	775
33,130.63	1,899,040	427	371	6.47	1.7	20,218.72	47	1,111.9	2,532
9,790.57	423,636	157	225	5.20	2.3	51,512.75	29	1,866.0	1,309
18,320.83	1,114,047	241	385	6.33	1.6	20,030.11	51	1,264.5	1,727
24,901.86	1,772,240	449	329	4.62	1.4	37,327.01	72	2,173.5	3,273
9,784.30	404,959	195	173	4.18	2.4	28,456.06	18	1,311.3	1,200
18,295.68	798,044	294	226	5.19	2.3	26,541.29	50	1,290.9	1,589
10,895.43	505,012	200	210	4.54	2.2	14,471.95	52	958.5	1,562
11,483.73	714,118	184	323	5.20	1.6	24,093.13	36	1,571.5	1,444
13,450.21	794,216	214	309	5.24	1.7	12,894.70	25	704.3	1,107

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers For Domestic Service, for Commercial Light Service

Group II—TOWNS

Municipality	System	Population	Domestic service					
			Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			$ c.	kw-hr.		kw-hr.	$ c.	cents
Elmira	Nia.	2,063	15,875.30	839,756	519	135	2.55	1.9
Fergus	Nia.	2,785	16,477.22	1,031,360	658	131	2.09	1.6
Georgetown	Nia.	2,189	16,686.99	1,076,744	733	122	1.90	1.5
Goderich	Nia.	4,336	31,779.40	1,532,176	1,211	105	2.19	2.1
Hanover	G.B.	3,061	19,287.56	977,354	740	110	2.17	2.0
Hespeler	Nia.	2,861	14,363.80	703,489	721	81	1.66	2.0
Humberstone	Nia.	2,563	9,755.55	442,959	595	62	1.37	2.2
Huntsville	G.B.	2,700	12,009.12	836,396	624	112	1.60	1.4
Ingersoll	Nia.	5,139	30,765.04	2,015,058	1,392	121	1.84	1.5
Kincardine	G.B.	2,468	15,184.34	511,680	660	65	1.92	3.0
Kingsville	Nia.	2,282	13,987.44	756,260	603	105	1.93	1.8
Leamington	Nia.	5,340	27,670.88	1,643,626	1,392	99	1.66	1.7
Lindsay	E.O.	7,116	38,663.58	2,308,719	1,938	99	1.66	1.7
Listowel	Nia.	2,819	16,676.74	937,300	747	105	1.86	1.8
Long Branch	Nia.	4,099	26,199.02	1,443,965	1,216	99	1.78	1.8
Meaford	G.B.	2,719	12,212.46	527,639	669	66	1.52	2.3
Merritton	Nia.	2,543	12,406.14	973,225	660	123	1.57	1.3
Midland	G.B.	6,690	34,945.51	2,206,293	1,593	115	1.83	1.6
Mimico	Nia.	6,876	55,221.42	3,905,467	1,786	182	2.58	1.4
Napanee	E.O.	3,061	23,278.78	1,350,199	807	139	2.40	1.7
New Toronto	Nia.	6,848	35,622.58	2,446,162	1,698	120	1.75	1.5
Orangeville	G.B.	2,479	15,451.31	749,673	677	92	1.90	2.1
Paris	Nia.	4,315	22,710.82	1,579,396	1,065	124	1.78	1.4
Penetanguishene	G.B.	4,061	12,000.68	513,637	609	70	1.64	2.3
Perth	E.O.	4,184	23,768.94	1,499,268	1,006	124	1.97	1.6
Petrolia	Nia.	2,720	11,925.93	550,649	732	63	1.36	2.2
Picton	E.O.	3,481	22,070.90	1,241,556	983	105	1.87	1.8
Port Colborne	Nia.	6,196	30,818.31	1,495,820	1,403	89	1.83	2.1
Port Hope	E.O.	4,564	25,996.29	1,352,863	1,317	86	1.64	1.9
Prescott	E.O.	2,942	16,605.74	1,213,425	716	141	1.93	1.4
Preston	Nia.	6,294	31,589.53	2,149,651	1,492	120	1.76	1.5
Riverside	Nia.	5,017	37,453.23	1,703,534	1,273	112	2.45	2.2
St. Marys	Nia.	4,023	28,701.51	1,378,090	1,046	110	2.29	2.1
Simcoe	Nia.	5,614	24,500.24	1,410,840	1,380	85	1.48	1.7
Smiths Falls	E.O.	7,623	41,505.24	2,592,155	1,795	120	1.93	1.6
Strathroy	Nia.	2,911	19,901.80	1,377,957	811	142	2.04	1.4
Tecumseh	Nia.	2,432	12,005.71	414,438	548	63	1.83	2.9
Thorold	Nia.	4,959	18,414.32	1,157,032	1,123	86	1.37	1.6
Tillsonburg	Nia.	3,702	16,253.69	948,401	1,026	77	1.32	1.7
Trenton	E.O.	6,440	28,801.37	1,551,272	1,402	92	1.71	1.9
Walkerton	G.B.	2,350	14,331.48	768,352	587	109	2.03	1.9
Wallaceburg	Nia.	4,660	18,329.17	919,484	1,089	70	1.40	2.0
Waterloo	Nia.	8,266	60,290.09	4,973,620	1,933	214	2.60	1.2
Weston	Nia.	5,028	43,655.64	4,148,264	1,306	265	2.79	1.1
Whitby	E.O.	3,778	21,168.36	1,426,530	875	136	2.02	1.5
Wingham	G.B.	2,115	11,617.39	520,398	551	79	1.76	2.2

"D"—Continued

in Ontario Municipalities Served by the Commission and for Power Service during the Year 1937

Population, 2,000 or more

Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	
$ c.	kw-hr.		kw-hr.	$ c.	cents	$ c.			
7,180.66	271,189	117	193	5.11	2.6	6,328.78	21	334.1	657
7,369.46	237,860	110	180	5.58	3.1	15,193.71	14	669.5	782
7,037.67	333,404	129	215	4.55	2.1	24,030.85	28	1,118.2	890
16,415.78	713,048	238	250	5.75	2.3	12,898.11	20	571.4	1,469
7,294.28	342,465	138	207	4.40	2.1	19,500.45	24	796.2	902
5,776.09	308,101	100	257	4.81	1.9	40,482.38	29	1,836.6	850
3,397.69	202,473	67	252	4.23	1.7	4,001.56	5	145.2	667
9,274.75	610,147	135	377	5.73	1.5	13,798.57	12	848.8	771
16,358.91	1,054,494	237	371	5.75	1.6	29,430.87	43	1,656.6	1,672
8,289.83	258,992	122	177	5.66	3.2	11,616.94	19	506.9	801
6,721.15	315,701	150	175	3.73	2.1	4,328.98	14	203.9	767
15,459.66	818,288	257	265	5.01	1.9	22,117.66	28	1,151.2	1,677
26,091.06	1,224,340	333	306	6.53	2.1	29,541.09	74	1,528.0	2,345
9,938.00	477,359	151	263	5.48	2.1	13,540.50	21	658.3	919
6,077.43	373,053	97	321	5.22	1.6	2,707.21	5	131.2	1,318
7,503.21	330,624	145	190	4.31	2.3	8,280.58	18	405.0	832
2,698.68	174,167	66	220	3.41	1.5	110,483.89	11	5,329.2	737
15,596.03	884,618	217	340	5.99	1.8	51,646.97	55	3,812.6	1,865
10,331.68	603,678	142	354	6.06	1.7	11,420.68	20	463.3	1,948
14,092.20	598,211	194	257	6.05	2.4	11,145.81	33	594.5	1,034
16,386.04	1,210,288	197	512	6.93	1.4	141,624.32	32	6,405.2	1,927
9,747.88	462,367	159	242	5.11	2.1	6,559.13	25	357.2	861
8,250.89	528,756	182	242	3.78	1.6	14,356.59	23	816.0	1,270
7,029.69	308,569	108	238	5.42	2.3	17,063.49	28	703.1	745
14,592.83	697,622	200	291	6.08	2.1	15,468.80	25	804.3	1,231
7,358.74	299,083	170	147	3.61	2.5	23,866.59	76	822.3	978
14,876.86	741,216	196	315	6.33	2.0	6,313.53	34	438.2	1,213
15,409.68	903,520	239	315	5.37	1.7	19,462.22	24	744.0	1,666
12,752.36	548,947	206	222	5.16	2.3	30,295.58	39	1,285.3	1,562
9,309.35	518,496	163	265	4.76	1.8	5,020.60	19	321.3	898
17,798.68	957,330	221	361	6.71	1.9	42,899.95	42	2,410.4	1,755
4,125.62	175,297	64	228	5.37	2.4	5,453.44	8	191.5	1,345
10,925.18	454,931	182	208	5.00	2.4	23,708.81	39	883.1	1,267
26,383.82	1,838,311	347	442	6.34	1.4	30,087.24	40	1,303.0	1,767
15,340.97	819,664	271	252	4.72	1.9	24,499.48	44	1,158.5	2,110
10,751.16	560,413	169	276	5.30	1.9	13,724.36	28	818.6	1,008
3,991.48	147,789	49	251	6.79	2.7	2,276.07	3	99.5	600
6,576.86	520,550	160	271	3.43	1.3	36,985.64	17	2,027.2	1,300
14,600.61	838,810	226	309	5.38	1.7	11,439.81	31	669.6	1,283
18,913.19	903,848	262	287	6.02	2.1	64,156.42	49	2,649.3	1,713
8,353.81	347,436	136	213	5.12	2.4	6,859.89	17	315.2	740
11,074.08	549,147	244	188	3.78	2.0	52,647.04	32	1,926.6	1,365
24,173.09	1,436,318	253	473	7.96	1.7	34,246.93	74	2,044.0	2,260
9,620.43	718,795	184	326	4.36	1.3	49,610.23	30	2,342.6	1,520
11,123.21	544,260	161	282	5.76	2.0	15,917.63	20	613.5	1,056
7,294.82	292,061	146	167	4.16	2.5	10,254.02	24	398.8	721

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

Note—The power used in the smaller places and rural districts is, and possibly must always be, a relatively small proportion of the power distributed by the Commission. Thus, the power used by the small municipalities in the following group, which includes small towns, villages and certain suburban areas in townships, is less than 10 per cent of the power distributed by the Commission to Ontario municipalities. This relatively small proportion of the total power,

Municipality	System	Population	Domestic service					
			Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			$ c.	kw-hr.		kw-hr.	$ c.	cents
Acton	Nia.	1,993	10,545.76	679,237	491	115	1.79	1.6
Agincourt	Nia.	P.V.	4,535.81	266,525	150	148	2.52	1.7
Ailsa Craig	Nia.	452	2,355.16	97,143	132	61	1.49	2.4
Alexandria	E.O.	1,926	7,415.81	164,781	330	42	1.87	4.5
Alliston	G.B.	1,320	9,502.26	311,438	332	78	2.39	3.1
Alvinston	Nia.	643	3,914.60	66,755	165	34	1.98	5.9
Ancaster Twp.	Nia.	......	9,060.25	483,220	289	139	2.61	1.9
Apple Hill	E.O.	P.V.	1,313.90	23,236	50	39	2.19	5.7
Arkona	Nia.	415	2,812.40	56,983	103	46	2.28	4.9
Arthur	G.B.	1,052	5,365.18	111,665	207	45	2.16	4.8
Athens	E.O.	669	3,204.97	76,051	170	37	1.57	4.2
Aylmer	Nia.	1,995	10,215.49	608,128	671	75	1.27	1.7
Ayr	Nia.	770	5,329.48	273,444	213	107	2.08	1.9
Baden	Nia.	P.V.	3,645.57	228,506	147	130	2.07	1.6
Bath	E.O.	318	1,481.71	33,472	38	73	3.25	4.4
Beachville	Nia.	P.V.	2,898.59	154,159	139	94	1.74	1.9
Beaverton	G.B.	976	6,461.14	336,894	329	85	1.64	1.9
Beeton	G.B.	605	3,396.24	71,963	122	49	2.32	4.7
Belle River	Nia.	748	4,017.94	140,470	227	52	1.48	2.9
Blenheim	Nia.	1,755	8,366.52	418,880	529	66	1.32	2.0
Bloomfield	E.O.	663	3,122.87	104,737	164	53	1.59	3.0
Blyth	Nia.	624	3,571.20	100,216	171	49	1.74	3.6
Bolton	Nia.	569	4,211.35	181,877	162	94	2.17	2.3
Bothwell	Nia.	642	2,509.90	118,620	176	56	1.19	2.1
Bradford	G.B.	989	6,549.61	202,508	231	73	2.36	3.2
Brantford Twp.	Nia.	....	21,288.76	1,158,906	910	106	1.95	1.8
Brechin	G.B.	P.V.	1,020.45	24,029	41	49	2.07	4.2
Bridgeport	Nia.	P.V.	4,052.99	159,680	147	90	2.30	2.5
Brigden	Nia.	P.V.	2,315.99	59,465	112	44	1.72	3.9
Brighton	E.O.	1,420	8,739.86	234,846	493	40	1.48	3.7
Brussels	Nia.	787	4,920.44	125,465	232	45	1.77	3.9
Burford	Nia.	P.V.	4,031.07	207,273	195	89	1.72	1.9
Burgessville	Nia.	P.V.	1,428.99	41,808	56	62	2.13	3.4
Caledonia	Nia.	1,370	5,795.42	252,649	390	54	1.24	2.3
Campbellville	Nia.	P.V.	1,415.96	32,853	46	60	2.57	4.3
Cannington	G.B.	761	5,161.71	193,111	250	64	1.72	2.7
Capreol	N.P.	1,745	9,060.17	176,697	302	49	2.50	5.1
Cardinal	E.O.	1,471	6,513.04	341,655	347	82	1.56	1.9
Cayuga	Nia.	674	3,572.78	110,515	149	62	2.00	3.2
Chatsworth	G.B.	321	1,907.08	54,665	85	54	1.87	3.5

"D"—Continued

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however, exerts upon the economic life of the Province a most beneficial influence. It should further be appreciated that about 35 per cent of these municipalities obtain their power, not from Niagara, but from relatively small water-power developments throughout the Province. The net cost per kilowatt-hour given in the table is the cost inclusive of all charges. Consult also introduction to Statement "D", page 430.

Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	
$ c.	kw-hr.		kw-hr.	$ c.	cents	$ c.			
4,551.65	241,489	90	224	4.21	1.9	15,913.81	15	725.8	596
1,208.65	51,586	27	159	3.73	2.3	1,239.52	3	62.1	180
1,381.48	49,568	41	101	2.81	2.6	1,138.76	2	48.6	175
5,547.55	114,727	112	85	4.13	4.8	3,309.08	14	122.0	456
5,842.51	173,240	105	137	4.64	3.4	3,126.26	13	150.4	450
2,583.25	52,406	53	82	4.06	4.9	522.79	2	19.7	220
1,779.90	83,457	39	178	3.80	2.1	528.01	6	24.6	334
909.64	22,658	22	86	3.45	4.0	320.76	2	19.6	74
1,871.38	40,888	33	103	4.73	4.6	168.23	2	5.0	138
4,619.18	97,803	86	95	4.48	4.7	2,173.90	4	99.6	297
1,322.49	27,433	49	47	2.25	4.8	909.87	1	33.2	220
7,337.06	430,470	153	234	4.00	1.7	5,386.02	11	283.0	835
1,712.11	67,039	45	124	3.17	2.5	642.81	5	23.8	263
1,832.86	83,999	40	175	3.82	2.2	5,818.76	2	244.7	189
888.74	14,026	18	65	4.11	6.3	....	......	....	56
680.13	26,686	23	96	2.47	2.6	11,386.18	4	451.4	166
2,448.87	130,352	67	162	3.05	1.9	1,272.77	8	74.1	404
2,312.20	50,097	38	110	5.07	4.6	1,705.52	4	75.3	164
1,923.25	76,702	45	142	3.56	2.5	1,034.27	2	27.6	274
6,489.23	364,135	125	243	4.33	1.8	4,182.86	11	179.5	665
1,557.88	53,382	31	144	4.19	2.9	837.47	6	33.6	201
1,779.49	49,509	55	75	2.70	3.6	463.20	3	32.6	229
1,197.17	31,821	40	66	2.49	3.8	1,987.72	10	95.6	212
1,331.58	61,750	52	96	2.16	2.2	779.84	7	77.5	235
3,691.24	81,992	65	105	4.73	4.5	3,407.07	10	185.9	306
4,292.84	249,352	49	424	7.30	1.7	3,108.53	5	142.0	964
1,075.55	25,512	26	82	3.45	4.2	899.16	3	36.5	70
866.81	28,030	18	130	4.01	3.0	270.94	3	10.5	168
2,041.32	58,656	45	109	3.78	3.5	674.99	5	26.1	162
4,041.09	131,483	97	113	3.47	3.1	2,377.49	11	127.5	601
2,744.06	82,806	66	105	3.46	3.3	742.66	3	25.9	301
1,090.39	60,596	29	174	3.13	1.8	967.17	2	44.0	226
582.14	14,935	15	83	3.23	3.9	222.02	2	13.5	73
3,893.27	228,119	91	209	3.57	1.7	1,645.56	6	68.8	487
472.38	14,894	9	138	4.38	3.2	....	......	....	55
2,551.94	80,547	70	96	3.04	3.2	659.31	9	37.8	329
3,954.05	99,226	53	156	6.22	4.0	708.97	1	25.0	356
2,049.59	93,230	61	127	2.80	2.2	633.08	3	19.0	411
3,171.71	97,840	56	146	4.72	3.2	1,018.45	6	42.3	211
1,628.54	42,262	34	104	3.99	3.9	....	......	....	119

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Population	Domestic service					
			Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			$ c.	kw-hr.		kw-hr.	$ c.	cents
Chesley	G.B.	1,766	8,597.40	413,760	426	81	1.68	2.1
Chesterville	E.O.	1,067	5,153.14	246,048	237	87	1.81	2.1
Chippawa	Nia.	1,187	7,586.29	556,964	330	141	1.92	1.4
Clifford	Nia.	441	2,333.26	49,856	113	37	1.72	4.7
Clinton	Nia.	1,865	12,074.60	603,032	542	93	1.86	2.0
Cobden	E.O.	637	2,369.39	48,690	104	39	1.90	4.9
Colborne	E.O.	954	4,897.97	160,962	246	55	1.66	3.0
Coldwater	G.B.	589	2,912.71	155,508	143	91	1.70	1.9
Comber	Nia.	P.V.	2,109.09	69,766	101	58	1.74	3.0
Cookstown	G.B.	P.V.	2,172.60	41,883	102	34	1.78	5.2
Cottam	Nia.	P.V.	2,458.40	69,988	107	55	1.91	3.5
Courtright	Nia.	286	1,449.37	26,350	66	33	1.83	5.5
Creemore	G.B.	631	3,203.49	71,072	126	47	2.12	4.5
Dashwood	Nia.	P.V.	1,452.39	43,635	80	45	1.51	3.3
Delaware	Nia.	P.V.	1,515.27	82,675	59	117	2.14	1.8
Deseronto	E.O.	1,287	5,762.67	180,027	293	51	1.64	3.2
Dorchester	Nia.	P.V.	2,320.57	106,450	141	63	1.37	2.2
Drayton	Nia.	566	3,169.29	120,174	161	62	1.59	2.6
Dresden	Nia.	1,468	6,399.28	278,457	388	60	1.37	2.3
Drumbo	Nia.	P.V.	1,993.89	80,626	88	76	1.89	2.5
Dublin	Nia.	P.V.	1,482.23	28,268	50	47	2.47	5.2
Dundalk	G.B.	652	2,996.24	109,944	168	55	1.49	2.7
Durham	G.B.	1,816	6,580.18	288,403	442	54	1.24	2.3
Dutton	Nia.	776	3,146.13	171,910	212	68	1.24	1.8
East York Twp.	Nia.	....	184,073.34	10,423,116	9,200	94	1.67	1.8
Elmvale	G.B.	P.V.	2,875.55	119,896	170	59	1.41	2.4
Elmwood	G.B.	P.V.	1,329.70	30,491	63	40	1.76	4.4
Elora	Nia.	1,138	7,406.09	333,228	326	85	1.89	2.2
Embro	Nia.	449	2,710.37	133,908	111	101	2.03	2.0
Erieau	Nia.	238	3,531.94	133,744	177	63	1.66	2.6
Erie Beach	Nia.	....	1,625.66	31,139	79	33	1.71	5.2
Essex	Nia.	1,798	8,073.44	387,890	459	70	1.47	2.1
Etobicoke Twp.	Nia.	....	128,521.51	9,792,284	3,975	206	2.69	1.3
Exeter	Nia.	1,629	10,529.15	606,131	458	110	1.92	1.7
Finch	E.O.	392	2,064.42	94,956	91	87	1.99	2.2
Flesherton	G.B.	446	2,441.82	68,932	145	40	1.40	3.5
Fonthill	Nia.	803	4,880.91	187,591	218	72	1.87	2.6
Forest	Nia.	1,586	10,694.50	487,777	458	89	1.95	2.2
Glencoe	Nia.	778	5,027.38	194,739	215	75	1.95	2.6
Grand Valley	G.B.	582	3,368.91	82,918	159	43	1.77	4.1

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in Ontario Municipalities Served by the Commission and for Power Service during the Year 1937

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Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	
$ c.	kw-hr.		kw-hr.	$ c.	cents	$ c.			
4,651.64	218,419	99	184	3.92	2.1	7,577.81	20	366.1	545
3,587.23	132,784	71	156	4.21	2.7	2,333.61	4	97.6	312
1,848.59	105,308	46	191	3.35	1.8	1,109.86	2	39.5	378
1,780.85	52,307	40	109	3.71	3.4	405.45	1	14.0	154
7,238.45	307,480	130	197	4.64	2.4	4,976.52	16	227.2	688
2,621.54	45,230	47	80	4.65	5.8	297.77	1	7.0	152
3,099.08	102,221	75	114	3.44	3.0	747.55	5	47.8	326
1,742.73	59,207	54	91	2.69	2.9	6,326.14	3	252.7	200
2,192.56	72,782	49	124	3.73	3.0	3,180.78	3	98.9	153
1,272.08	29,077	32	76	3.31	4.4	761.49	3	50.2	137
1,393.60	53,983	29	155	4.00	2.6	317.43	1	15.0	137
1,045.85	26,077	26	84	3.35	4.0	696.09	1	12.5	93
1,948.02	49,030	55	74	2.95	4.0	758.52	2	50.6	183
978.35	23,514	30	65	2.72	4.2	1,096.72	2	37.6	112
627.41	23,066	17	113	3.08	2.7	....	......	....	76
2,189.38	53,320	67	66	2.72	4.1	1,913.87	7	72.0	367
864.04	34,184	29	98	2.49	2.5	261.87	2	22.1	172
2,091.01	58,538	67	73	2.60	3.6	956.93	5	53.0	233
5,294.68	265,530	118	188	3.74	2.0	3,671.88	10	169.2	516
827.87	28,228	27	87	2.56	2.9	547.67	1	22.9	116
795.62	17,442	19	76	3.49	4.6	612.35	2	27.4	71
2,771.10	93,769	73	107	3.16	3.0	2,597.99	5	145.6	246
4,758.40	205,532	107	160	3.70	2.3	3,980.39	12	210.8	561
2,485.81	114,980	65	147	3.19	2.2	3,081.68	9	154.4	286
27,377.69	1,567,312	391	334	5.83	1.7	41,585.54	37	1,774.4	9,628
1,720.57	76,375	58	110	2.47	2.3	2,776.35	8	132.5	236
696.71	15,191	23	55	2.52	4.6	1,255.75	1	42.4	87
3,974.83	154,215	73	176	4.54	2.6	2,598.27	2	125.6	401
1,441.98	41,520	46	75	2.61	3.5	1,083.73	1	36.6	158
1,351.69	37,349	14	222	8.05	3.6	507.07	2	19.3	193
336.77	11,312	3	314	9.35	3.0	....	......	....	82
6,719.51	358,045	118	253	4.75	1.9	8,083.38	19	380.1	596
19,353.99	1,174,095	244	401	6.60	1.6	24,595.68	24	1,172.4	4,243
5,422.31	224,106	117	160	3.86	2.4	3,377.56	9	202.2	584
1,687.04	47,425	35	113	4.02	3.6	294.21	1	7.3	127
1,924.89	60,956	53	96	3.03	3.2	137.72	1	10.4	199
1,351.15	63,785	33	161	3.41	2.1	536.57	4	19.7	255
5,520.10	198,640	118	140	3.90	2.8	4,421.21	21	206.2	597
3,623.31	106,199	82	108	3.68	3.4	3,536.85	6	115.5	303
1,993.31	47,081	52	75	3.19	4.2	1,485.03	6	71.1	217

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Population	Domestic service					
			Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			$ c.	kw-hr.		kw-hr.	$ c.	cents
Granton	Nia.	P.V.	1,824.58	81,086	83	81	1.83	2.3
Gravenhurst	G.B.	1,996	9,631.59	679,530	510	111	1.57	1.4
Hagersville	Nia.	1,345	5,378.01	277,165	350	66	1.28	1.9
Harriston	Nia.	1,273	6,982.79	268,516	350	64	1.66	2.6
Harrow	Nia.	918	8,241.52	495,352	269	153	2.55	1.7
Hastings	E.O.	811	4,165.09	109,366	195	47	1.78	3.8
Havelock	E.O.	1,208	5,061.67	151,796	280	45	1.51	3.3
Hensall	Nia.	719	3,858.52	141,590	185	64	1.74	2.7
Highgate	Nia.	327	1,645.67	52,755	98	45	1.40	3.1
Holstein	G.B.	P.V.	969.26	12,068	52	19	1.55	8.0
Jarvis	Nia.	504	2,517.07	81,943	132	52	1.59	3.1
Kemptville	E.O.	1,178	7,306.20	283,120	340	70	1.79	2.6
Kirkfield	G.B.	P.V.	775.15	11,754	29	34	2.23	6.6
Lakefield	E.O.	1,337	6,105.64	229,744	316	61	1.61	2.7
Lambeth	Nia.	P.V.	3,123.19	180,239	123	122	2.12	1.7
Lanark	E.O.	623	3,227.61	78,595	176	37	1.53	4.1
Lancaster	E.O.	608	1,941.58	33,005	87	32	1.86	5.9
La Salle	Nia.	782	5,947.02	280,359	203	115	2.44	2.1
London Twp.	Nia.	....	11,640.13	887,466	386	192	2.51	1.3
Lucan	Nia.	613	4,228.76	185,295	175	88	2.01	2.3
Lucknow	G.B.	1,068	6,497.25	179,450	266	56	2.04	3.6
Lynden	Nia.	P.V.	2,131.47	78,592	88	74	2.02	2.7
Madoc	E.O.	1,253	4,662.12	154.392	278	46	1.40	3.0
Markdale	G.B.	802	3,468.41	141,815	210	56	1.38	2.4
Markham	Nia.	1,112	7,004.98	350,196	294	99	1.99	2.0
Marmora	E.O.	948	3,624.32	77,805	210	31	1.44	4.7
Martintown	E.O.	P.V.	887.29	20,214	41	41	1.80	4.4
Maxville	E.O.	741	3,699.61	68,707	145	40	2.13	5.4
Merlin	Nia.	P.V.	2,174.74	63,533	110	48	1.65	3.4
Mildmay	G.B.	750	2,942.72	109,651	153	60	1.60	2.7
Milton	Nia.	1,785	11,479.33	581,979	471	103	2.03	2.0
Milverton	Nia.	987	4,706.91	264,422	240	92	1.63	1.8
Mitchell	Nia.	1,577	11,433.69	664,764	449	123	2.12	1.7
Moorefield	Nia.	P.V.	1,149.27	20,118	60	28	1.60	5.7
Mt. Brydges	Nia.	P.V.	2,771.38	138,770	149	78	1.55	2.0
Mt. Forest	G.B.	1,815	8,578.31	425,250	473	75	1.51	2.0
Neustadt	G.B.	451	1,952.52	24,318	92	22	1.77	8.0
Newbury	Nia.	276	1,373.49	28,654	69	35	1.66	4.8
Newcastle*	E.O.	675	4,951.52	123,342	184	61	2.45	4.0
New Hamburg	Nia.	1,464	9,264.20	475,939	346	115	2.23	1.9

*Eleven months' revenue.

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VILLAGES AND SUBURBAN AREAS

Commercial Light service						Power service			
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horsepower	Total number of consumers
$ c.	kw-hr.		kw-hr.	$ c.	cents	$ c.			
1,015.75	42,066	34	103	2.49	2.4	395.85	1	20.1	118
7,358.44	458,064	129	296	4.75	1.6	10,745.44	16	422.5	655
5,076.34	268,687	114	196	3.71	1.9	14,088.48	14	686.4	478
4,685.95	175,261	105	139	3.72	2.7	5,439.80	13	250.7	468
4,283.21	197,365	76	216	4.70	2.2	4,227.28	5	180.3	350
2,013.42	39,933	51	65	3.29	5.0	250.87	4	16.6	250
2,479.56	58,797	64	77	3.23	4.2	2,409.10	3	88.8	347
2,095.92	66,486	60	92	2.91	3.2	2,733.90	13	123.5	258
875.56	26,880	35	64	2.08	3.3	1,069.62	6	54.7	139
565.10	8,619	19	38	2.48	6.6	125.41	1	7.5	72
1,793.25	71,405	43	138	3.48	2.5	3,580.21	4	131.8	179
4,932.15	203,546	86	197	4.78	2.4	5,184.57	6	205.1	432
1,194.57	22,980	19	101	5.24	5.2	....	.....	....	48
4,127.01	170,472	70	203	4.91	2.4	4,043.25	6	191.7	392
1,220.74	47,047	25	157	4.07	2.6	479.10	2	50.0	150
1,402.66	41,256	36	96	3.25	3.4	....	.....	....	212
1,671.50	32,580	35	78	3.98	5.1	....	.....	....	122
1,459.90	58,999	18	273	6.76	2.5	2,384.31	4	72.5	225
2,198.97	145,485	23	527	7.97	1.5	1,589.17	4	71.3	413
1,797.37	53,810	45	100	3.33	3.3	1,621.53	7	82.2	227
3,648.11	92,336	78	99	3.95	4.0	3,856.26	6	140.1	350
791.09	23,907	16	125	4.12	3.3	727.50	2	40.0	106
3,446.88	109,606	88	104	3.26	3.1	1,250.03	6	47.4	372
2,667.17	109,402	75	122	2.96	2.4	1,081.43	10	100.3	295
2,914.08	136,363	66	172	3.68	2.1	2,536.65	9	158.9	369
2,017.10	62,678	47	111	3.58	3.2	353.50	3	30.2	260
981.31	26,094	23	95	3.56	3.8	....	.....	....	64
2,787.64	57,943	47	103	4.94	4.8	....	.....	....	192
1,821.86	60,139	46	109	3.30	3.0	124.89	1	23.1	157
1,925.33	51,227	47	91	3.41	3.8	1,064.47	3	31.4	203
5,417.52	271,949	102	222	4.43	2.0	18,067.59	14	738.0	587
3,321.68	135,056	78	144	3.55	2.5	3,237.42	7	188.3	325
5,330.08	281,945	120	196	3.70	1.9	4,114.29	23	265.2	592
875.06	21,258	24	74	3.04	4.1	631.96	1	29.5	85
1,085.68	76,130	36	176	2.51	1.4	1,276.43	4	58.8	189
6,826.62	311,803	151	172	3.77	2.2	4,382.53	11	249.0	635
988.33	17,935	26	57	3.17	5.5	194.79	1	4.5	119
726.74	14,360	22	54	2.75	5.1	655.44	2	30.6	93
1,918.50	48,357	33	133	5.28	4.0	1,779.62	5	71.6	222
4,456.08	163,883	95	144	3.91	2.7	5,607.18	13	260.2	454

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Population	Domestic service					
			Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			$ c.	kw-hr.		kw-hr.	$ c.	cents
Niagara-on-the-Lake	Nia.	1,563	14,688.37	1,089,153	508	179	2.41	1.3
Nipigon	T.B.	P.V.	3,223.05	117,882	175	56	1.53	2.7
North York Twp.	Nia.	....	126,532.62	6,772,966	3,650	155	2.89	1.9
Norwich	Nia.	1,174	7,843.37	473,410	369	107	1.77	1.7
Norwood	E.O.	753	4,455.06	147,073	227	54	1.64	3.0
Oil Springs	Nia.	472	1,418.80	61,082	82	62	1.44	2.3
Omemee	E.O.	579	2,652.68	78,185	149	44	1.48	3.4
Otterville	Nia.	P.V.	2,260.39	98,761	121	68	1.56	2.3
Paisley	G.B.	792	3,717.40	87,322	187	39	1.66	4.3
Palmerston	Nia.	1,410	9,114.90	502,905	388	108	1.96	1.8
Parkhill	Nia.	997	5,220.34	145,490	252	48	1.73	3.6
Plattsville	Nia.	P.V.	2,294.89	70,955	107	55	1.79	3.2
Point Edward	Nia.	1,252	5,521.54	226,232	285	66	1.61	2.4
Port Credit	Nia.	1,755	13,556.63	1,078,600	465	193	2.43	1.3
Port Dalhousie	Nia.	1,459	15,288.35	1,140,806	583	163	2.19	1.3
Port Dover	Nia.	1,665	7,396.51	368,897	593	52	1.04	2.0
Port Elgin	G.B.	1,267	8,015.23	394,869	432	76	1.55	2.0
Port McNicoll	G.B.	933	3,613.96	103,946	210	41	1.43	3.5
Port Perry	G.B.	1,124	6,474.32	250,852	311	67	1.73	2.6
Port Rowan	Nia.	666	3,028.09	70,411	114	52	2.21	4.3
Port Stanley	Nia.	741	12,146.45	767,871	642	100	1.58	1.6
Priceville	G.B.	P.V.	693.43	9,852	35	23	1.65	7.0
Princeton	Nia.	P.V.	2,089.72	86,356	83	87	2.10	2.4
Queenston	Nia.	P.V.	3,095.13	220,267	68	270	3.79	1.4
Richmond	E.O.	408	1,712.51	45,962	59	65	2.42	3.7
Richmond Hill	Nia.	1,268	7,650.23	530,705	339	130	1.88	1.4
Ridgetown	Nia.	1,983	8,720.96	496,409	566	73	1.28	1.8
Ripley	G.B.	442	3,268.67	63,133	126	42	2.16	5.2
Rockwood	Nia.	P.V.	3,345.01	156,856	159	82	1.75	2.1
Rodney	Nia.	724	3,236.34	124,865	217	48	1.24	2.6
Rosseau	G.B.	315	2,869.27	51,120	61	70	3.92	5.6
Russell	E.O.	P.V.	2,568.80	55,283	120	38	1.78	4.7
St. Clair Beach	Nia.	100	2,018.15	87,187	63	115	2.67	2.3
St. George	Nia.	P.V.	2,989.98	126,222	145	73	1.72	2.4
St. Jacobs	Nia.	P.V.	3,924.59	217,810	126	144	2.60	1.8
Scarboro Twp.	Nia.	....	98,727.59	5,393,001	4,769	96	1.73	1.8
Seaforth	Nia.	1,717	9,866.10	520,233	458	95	1.80	1.9
Shelburne	G.B.	1,114	5,776.33	203,394	263	64	1.83	2.8
Southampton	G.B.	1,255	8,176.98	363,444	448	68	1.52	2.2
Springfield	Nia.	365	1,687.20	56,112	97	48	1.45	3.0

"D"—Continued

in Ontario Municipalities Served by the Commission and for Power Service during the Year 1937

VILLAGES AND SUBURBAN AREAS

Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	
$ c.	kw-hr.		kw-hr.	$ c.	cents	$ c.			
4,609.71	250,761	84	249	4.57	1.8	2,373.02	9	91.5	601
2,884.02	132,137	53	208	4.53	2.2	693.45	2	38.9	230
20,123.64	756,795	274	230	6.12	2.7	34,956.15	39	1,101.4	3,963
3,804.03	182,870	87	175	3.64	2.1	1,948.67	6	192.4	462
2,301.50	48,177	64	63	3.00	4.8	697.11	2	24.8	293
1,339.37	49,428	32	129	3.49	2.7	6,903.98	33	181.9	147
1,659.53	64,760	46	117	3.01	2.6	2,471.01	6	113.3	201
1,963.82	77,741	46	141	3.56	2.5	411.34	5	15.5	171
2,821.46	84,264	53	132	4.44	3.3	993.15	4	32.7	244
4,743.86	221,131	92	200	4.30	2.1	5,980.93	12	290.3	492
3,476.02	93,643	75	104	3.86	3.7	727.54	3	29.0	330
995.46	34,401	24	119	3.46	2.9	1,221.96	1	47.3	132
2,130.53	64,370	45	119	3.95	3.3	29,981.87	9	1,179.2	339
5,640.43	357,120	83	359	5.66	1.6	4,061.90	7	141.9	555
2,606.38	185,708	48	322	4.52	1.4	5,398.92	13	311.5	644
4,486.83	222,740	117	159	3.19	2.0	5,417.54	14	244.5	724
4,991.92	209,630	101	173	4.12	2.4	3,789.14	8	204.7	541
799.61	26,010	25	87	2.66	3.1	....	.....	....	235
3,066.39	83,128	76	91	3.36	3.7	3,055.20	11	147.7	398
1,826.17	43,228	40	91	3.80	4.2	95.98	3	9.9	157
4,342.10	180,971	106	142	3.40	2.4	3,858.66	9	160.7	757
301.15	4,394	10	37	2.51	6.9	64.87	1	1.88	46
723.52	25,740	19	113	3.17	2.8	2,426.32	3	88.4	105
983.39	43,961	12	305	6.83	2.2	....	.....	....	80
1,550.52	48,373	28	144	4.61	3.2	....	.....	....	87
3,894.28	204,001	63	270	5.15	1.9	2,005.07	14	119.1	416
6,022.15	309,173	141	183	3.56	1.9	3,769.20	21	223.2	728
1,577.42	21,904	44	41	2.99	7.2	....	.....	....	170
1,096.30	46,543	35	111	2.61	2.4	425.41	2	15.7	196
2,586.76	83,237	75	92	2.87	3.1	2,222.51	6	96.6	298
995.67	12,441	20	52	4.15	8.0	....	.....	....	81
1,458.81	31,768	32	83	3.80	4.6	....	.....	....	152
1,768.86	54,830	6	761	24.56	3.2	310.39	1	9.2	70
1,294.80	48,579	36	112	3.00	2.7	2,638.11	3	102.4	184
1,612.86	61,927	28	184	4.80	2.6	3,752.18	7	151.4	161
20,175.87	1,041,013	373	232	4.43	1.9	23,616.92	38	889.3	5,180
5,767.01	299,894	118	212	4.07	1.9	4,515.02	14	344.9	590
3,887.41	138,848	81	143	4.00	2.8	2,530.90	14	170.0	358
3,367.26	115,016	82	117	3.42	2.9	3,981.67	12	150.7	542
778.95	21,807	30	61	2.16	3.6	1,019.55	3	39.8	130

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Population	Domestic service					
			Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			$ c.	kw-hr.		kw-hr.	$ c.	cents
Stamford Twp.	Nia.	....	59,873.97	4,440,379	1,790	207	2.79	1.3
Stayner	G.B.	999	4,632.97	218,766	264	69	1.46	2.1
Stirling	E.O.	935	5,087.22	309,461	262	98	1.62	1.6
Stouffville	Nia.	1,155	7,005.23	259,184	363	60	1.61	2.7
Streetsville	Nia.	636	5,482.74	273,673	167	137	2.74	2.0
Sunderland	G.B.	P.V.	2,545.12	63,198	115	46	1.84	4.0
Sutton	Nia.	831	8,172.84	265,137	421	52	1.62	3.1
Tara	G.B.	471	2,882.59	83,470	139	50	1.73	3.5
Tavistock	Nia.	1,034	7,290.79	428,005	277	129	2.19	1.7
Teeswater	G.B.	837	4,529.29	115,746	208	46	1.82	3.9
Thamesford	Nia.	P.V.	2,734.77	166,067	129	107	1.77	1.6
Thamesville	Nia.	788	3,688.76	174,895	229	64	1.34	2.1
Thedford	Nia.	585	2,930.43	66,177	140	39	1.74	4.4
Thorndale	Nia.	P.V.	1,582.25	42,507	69	51	1.91	3.7
Thornton	G.B.	P.V.	1,380.15	19,962	60	28	1.92	6.9
Tilbury	Nia.	1,992	6,965.79	372,786	446	70	1.30	1.9
Toronto Twp.	Nia.	....	65,185.09	4,154,568	2,164	160	2.51	1.6
Tottenham	G.B.	540	3,615.62	76,003	135	47	2.23	4.8
Trafalgar Twp. No. 1	Nia.	....	13,199.23	709,540	346	171	3.18	1.9
Trafalgar Twp. No. 2	Nia.	....	5,844.20	237,420	158	125	3.08	2.5
Tweed	E.O.	1,311	5,860.09	169,234	287	49	1.70	3.5
Uxbridge	G.B.	1,483	8,272.57	330,670	392	70	1.76	2.5
Victoria Harbor	G.B.	1,043	3,024.48	105,281	192	46	1.31	2.9
Wardsville	Nia.	249	1,093.87	18,370	50	31	1.82	6.0
Warkworth	E.O.	P.V.	2,005.61	43,998	112	33	1.49	4.6
Waterdown	Nia.	875	5,180.34	323,945	232	116	1.87	1.6
Waterford	Nia.	1,250	5,803.89	334,970	325	86	1.49	1.7
Watford	Nia.	941	6,534.84	303,750	271	93	2.01	2.2
Waubaushene	G.B.	P.V.	2,366.59	122,000	172	59	1.15	1.9
Wellesley	Nia.	P.V.	2,525.99	79,218	128	52	1.64	3.2
Wellington	E.O.	872	5,462.02	251,380	308	68	1.48	2.2
West Lorne	Nia.	769	2,987.59	123,857	199	52	1.25	2.4
Westport	E.O.	720	3,325.24	58.277	106	46	2.61	5.7
Wheatley	Nia.	724	4,348.48	139,950	207	56	1.75	3.1
Wiarton	G.B.	1,766	8,598.76	214,985	390	46	1.83	4.0
Williamsburg	E.O.	P.V.	2,842.00	214,071	116	154	2.04	1.3
Winchester	E.O.	1,029	6,237.79	364,029	286	106	1.82	1.7
Windermere	G.B.	146	2,583.67	40,684	52	65	4.14	6.4
Woodbridge	Nia.	763	6,384.73	356,991	258	115	2.06	1.8
Woodville	G.B.	365	2,208.70	74,014	112	55	1.64	3.0
Wyoming	Nia.	516	2,399.26	73,219	139	44	1.44	3.3
Zurich	Nia.	P.V.	2,840.90	82,486	123	56	1.92	3.4

"D"—Concluded

in Ontario Municipalities Served by the Commission and for Power Service during the Year 1937

VILLAGES AND SUBURBAN AREAS

Commercial Light service						Power service			
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	Total number of consumers
$ c.	kw-hr.		kw-hr.	$ c.	cents	$ c.			
9,119.87	603,378	135	372	5.63	1.5	15,206.36	18	805.3	1,943
3,260.10	126,514	88	120	3.09	2.6	1,900.26	10	148.6	362
3,356.80	139,227	84	138	3.33	2.4	1,711.56	10	76.1	356
3,231.37	116,440	86	113	3.13	2.8	942.73	5	52.2	454
553.54	25,455	43	148	3.04	2.2	3,377.55	4	103.7	214
1,833.00	46,714	45	87	3.39	3.9	211.63	2	12.5	162
3,736.21	126,310	84	125	3.71	3.0	1,040.76	3	29.6	508
1,609.30	54,200	40	113	3.35	3.0	984.27	4	37.0	183
2,609.57	137,287	81	141	2.68	1.9	9,116.11	8	382.8	366
2,564.45	57,328	54	89	3.95	4.5	1,321.88	7	51.4	269
1,589.83	82,629	43	159	3.08	1.9	1,726.50	7	89.1	179
2,930.06	140,146	80	146	3.05	2.1	1,646.00	7	77.0	316
1,783.92	39,737	44	75	3.38	4.5	1,291.05	3	36.9	187
774.95	21,717	21	86	3.08	3.6	226.76	1	5.4	91
572.51	8,183	13	52	3.67	7.0	265.93	2	15.7	75
8,594.65	397,524	140	237	5.12	2.2	9,064.36	10	601.9	596
14,547.37	774,686	203	318	5.97	1.9	10,442.96	27	491.5	2,394
2,186.30	35,154	52	56	3.50	6.2	422.26	6	17.2	193
629.32	23,265	2	969	26.22	2.7	634.35	9	29.8	357
....	....	.....	.....	.....	.....	....	.....	....	158
4,442.86	89,747	97	77	3.82	5.0	3,088.08	11	127.5	395
4,200.50	124,546	97	107	3.61	3.4	878.98	10	65.8	499
879.83	33,506	21	133	3.49	2.6	137.01	2	4.5	215
1,308.25	28,303	26	91	4.19	4.6	....	.....	....	76
1,699.61	42,729	47	76	3.01	4.0	....	.....	....	159
1,711.88	99,227	35	236	4.08	1.7	1,330.12	6	82.3	273
2,305.24	147,570	72	171	2.67	1.6	4,187.04	11	250.0	408
2,929.90	106,433	74	120	3.30	2.8	3,888.14	5	137.9	350
595.48	27,630	23	100	2.16	2.2	525.50	4	15.0	199
1,466.52	37,414	47	66	2.60	3.9	1,413.22	5	57.0	180
2,195.91	78,959	65	101	2.82	2.8	2,210.79	6	83.0	379
1,568.72	64,541	53	101	2.47	2.4	1,849.31	10	92.9	262
2,988.62	62,851	49	107	5.08	4.8	....	.....	....	155
2,961.65	101,652	70	121	3.53	2.9	1,880.86	4	74.0	281
7,243.71	201,892	116	145	5.20	3.6	4,762.38	16	178.6	522
4,778.22	283,987	60	394	6.64	1.7	165.66	1	13.6	177
3,407.54	158,283	76	174	3.74	2.2	1,506.59	3	64.6	365
1,166.51	24,117	12	167	8.10	4.8	....	.....	....	64
1,750.65	65,101	49	111	2.98	2.7	4,951.92	7	240.7	314
1,181.66	31,814	32	83	3.08	3.7	525.82	2	33.6	146
1,445.79	37,304	47	66	2.56	3.9	393.46	3	21.0	189
2,271.57	51,436	47	91	4.03	4.4	....	.....	....	170

STATEMENT "E"

Cost of Power to Municipalities and Rates to Consumers for Domestic Service—Commercial Light Service—Power Service in Ontario Urban Municipalities Served by The Hydro-Electric Power Commission For the Year 1937

In Statement "E" are presented the rate schedules applicable to consumers for domestic service, for commercial light service and for power service in each of the co-operating municipalities receiving service at cost through The Hydro-Electric Power Commission.* The cost per horsepower of the power supplied at wholesale by the Commission to the municipality, an important factor in determining rates to consumers, is also stated.

Cost of Power to Municipalities

The figures in the first column represent the total cost for the year of the power supplied by the Commission to the municipality, divided by the number of horsepower supplied. Details respecting these costs are given in the "Cost of Power" tables relating to the several systems, as presented in Section IX, and an explanation of the items making up the cost of power is given in the introduction to that Section.

Rates to Consumers

The Power Commission Act stipulates that "The rates chargeable by any municipal corporation generating or receiving and distributing electrical power or energy shall at all times be subject to the approval and control of the Commission,"† in accordance with the Act and in pursuance of its fundamental principle of providing service at cost, the Commission requires that accurate cost records be kept in each municipality, and exercises a continuous supervision over the rates charged to consumers.

At the commencement of its operations, the Commission introduced scientifically-designed rate schedules for each of the three main classes into which the electrical service is usually divided, namely: residential or domestic service, commercial light service, and power service, and the schedules in use during the past year are presented in the tables of this statement.

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*Except townships served as parts of rural power districts, for which consult latter part of Section III.

†R.S.O. 1937, Ch. 62, Sec. 89.

Domestic Service: Domestic rates apply to electrical service in residences, for all household purposes, including lighting, cooking and the operation of all domestic appliances.

During the past two or three years most of the urban municipal utilities have further simplified the domestic rate structure by abolishing the service charge, and making a suitable adjustment in the first consumption rate. Where the service charge is retained at 33 and 66 cents gross per month the charge of 33 cents per month per service is made when the permanently installed appliance load is under 2,000 watts, and the charge of 66 cents per month when 2,000 watts or more.

Commercial Light Service: Electrical energy used in stores, offices, churches, schools, public halls and institutions, hotels, public boarding-houses, and in all other premises for commercial purposes, including sign and display lighting, is billed at commercial lighting rates.

Water-Heater Service: For all consumers using continuous electric water heaters, low flat rates are available consisting of a fixed charge per month dependent on the capacity of the heating element and the cost of power to the municipal utility. Such heaters are so connected that the electrical energy they consume is not metered. For new installations the necessary equipment, including heater, thermostat, efficient insulation for water-storage tank, and wiring, is installed by The Hydro-Electric Power Commission of Ontario without capital cost to the consumer or to the municipal electric utility.†

Power Service: The rate schedules given for power service in Statement "E" are those governing the supply of power at retail by each of the local municipal utilities. The average amount of power sold, per consumer, under these rates is approximately 40 horsepower—consult Statement "D". The Commission serves certain large power consumers direct on behalf of the various systems of municipalities.

The rates for power service, as given in the tables, are the rates for 24-hour unrestricted power at secondary distribution voltage. For service at primary distribution voltage the rates are usually five per cent lower than those stated. In municipalities where load conditions and other circumstances permit, lower rates are available for 10-hour power, and for other forms of restricted service. For these classifications, discounts additional to those listed in the table are applicable.

The service charge relates to the connected load or to the maximum demand, as measured by a 10-minute average peak, where a demand meter is installed. The prompt payment discount of 10 per cent on the total monthly bill is given for settlement within 10 days.

Under the tabulation of rates for power service there is a column headed "Basis of rate 130 hours' monthly use of demand." This column shows approximately the net annual amount payable for a demand of one horsepower, assuming a monthly use of 130 hours, which includes 30 hours' use each month at the third energy rate. Broadly, the figures in this column serve to indicate approximately the relative cost of power service in the different municipalities listed.

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†In addition, the Commission supplies booster water-heating equipment to furnish extra requirements beyond the capacity of the continuous heater; current for the booster heater is measured and charged for at the regular rates.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1937, in Urban Municipalities

Municipality C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month*	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
	$ c.	cents		cents	cents	$ c.	%
Acton	28.45	.....	60	2.6	1	0.83	10
Agincourt	33.30	.....	60	3.6	1.2	1.11	10
Ailsa Craig	41.61	.....	60	3.2	1	0.83	10
Alexandria T	52.74	.....	60	5.5	1.5	1.11	10
Alliston	47.27	.....	40	5.3	1.5	1.39	10
Alvinston	63.83	.....	60	5.5	1.5	1.94	10
Amherstburg T	30.44	.....	60	3.5	1	0.83	10
Ancaster twp	28.22	.....	60	3.8	1.3	0.83	10
Apple Hill	45.06	.....	60	6	2	1.66	10
Arkona	63.98	.....	60	6	1.8	1.94	10
Arthur	63.14	33–66	40	6	2	1.67	10
Athens	43.23	33–66	50	4.5	1.5	1.11	10
Aylmer T	29.47	.....	60	2.4	0.9	0.83	10
Ayr	28.63	.....	60	3.4	1.1	1.11	10
Baden	28.60	33–66	60	2	1	0.83	10
Barrie T	31.28	.....	60	2.7	1	0.83	10
Bath	61.55	33–66	40	6	2	3.33	10
Beachville	27.79	.....	60	3.1	1.1	0.83	10
Beaverton	38.73	.....	60	2.8	1	1.11	10
Beeton	63.37	.....	40	6	2	1.67	10
Belle River	32.53	.....	60	3.8	1.1	1.11	10
Belleville C	29.05	.....	55	2.4	0.8	0.83	10 & 10
Blenheim	32.47	.....	60	2.6	0.9	0.83	10
Bloomfield	51.83	.....	50	3.4	1.3	1.11	10
Blyth	44.29	33–66	50	3.6	1.2	1.39	10
Bolton	34.07	.....	55	3.9	1.5	1.11	10
Bothwell	38.07	.....	60	2.5	0.9	0.83	10
Bowmanville T	31.55	.....	60	3.5	1.2	0.83	10
Bradford	51.39	.....	40	5.5	1.5	1.67	10
Brampton T	26.05	.....	60	2.3	1	0.83	10
Brantford C	24.18	.....	60	2.3	0.9	0.83	10
Brantford twp	27.40	.....	60	2.9	1	1.11	10
Brechin	50.03	.....	45	5.5	1.2	1.67	10
Bridgeport	30.23	33–66	50	4	1.3	1.11	10
Brigden	56.57	.....	60	4.2	1	1.39	10
Brighton	33.67	.....	60	4.2	1.2	1.11	10
Brockville T	27.33	.....	60	1.8	0.8	0.83	10
Brussels	41.48	.....	50	4.2	1.2	1.39	10
Burford	28.94	.....	60	2.9	0.9	0.83	10
Burgessville	50.93	.....	60	5	1.5	1.39	10

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*Where domestic service charge has not been abolished the charge is 33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when 2,000 watts or more.

"E"

Domestic Service—Commercial Light Service—Power Service Served by The Hydro-Electric Power Commission

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	$ c.	%	$ c.	$ c.	cents	cents	cents	$ c.	%	%
5	1.8	0.5	0.83	10	22.00	1.00	1.9	1.3	0.33	....	10	10
5	3.2	0.7	1.11	10	25.00	1.00	2.0	1.3	0.33	....	..	10
5	2.5	0.6	0.83	10	26.00	1.00	2.2	1.4	0.33	....	..	10
5	4.8	0.8	1.66	10	38.00	1.00	4	2.6	0.33	....	..	10
5	4.3	1	1.39	10	32.00	1.00	3.1	2	0.33	....	..	10
5	5.5	1	1.94	10	55.00	1.00	6.5	4.3	0.33	....	......	10
5	2.6	0.6	0.83	10	27.00	1.00	2.3	1.5	0.33	....	......	10
5	3	0.7	0.83	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	5.5	1	1.66	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	6	1	1.94	10	53.00	1.00	6.2	4.1	0.33	....	......	10
5	6	1	1.67	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	4.5	1	1.11	10	42.00	1.00	4.6	3	0.33	....	......	10
5	1.9	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	....	10	10
5	2.5	0.7	1.11	10	32.00	1.00	3.1	2	0.33	....	......	10
5	2.2	0.7	0.83	10	20.00	1.00	1.6	1	0.33	....	10	10
5	2.1	0.8	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	6	1	3.33	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	2.6	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	....	10	10
5	2	0.8	1.11	10	24.00	1.00	2.3	1.5	0.33	....	10	10
5	5.5	1	1.67	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	2.8	0.7	1.11	10	33.00	1.00	3.2	2.1	0.33	....	......	10
5	1.8	0.4	0.83	10 & 10	16.00	1.00	1.5	0.9	0.33	....	25	10
5	2	0.6	0.83	10	25.00	1.00	2	1.3	0.33	....	......	10
5	3	1	1.11	10	38.00	1.00	4	2.6	0.33	....	......	10
5	3.4	1	1.39	10	45.00	1.00	4.9	3.3	0.33	....	......	10
5	3.4	1	1.11	10	27.00	1.00	2.3	1.5	0.33	....	......	10
5	2	0.6	0.83	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	2.6	0.8	0.83	10	22.00	1.00	1.9	1.3	0.33	....	10	10
5	4.6	1	1.67	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	1.8	0.6	0.83	10	17.00	1.00	1.7	1.1	0.33	....	25	10
†5	1.6	0.35	0.83	10	17.00	1.00	1.7	1.1	0.33	....	25	10
5	2.3	0.6	1.11	10	21.00	1.00	1.8	1.1	0.33	....	10	10
5	4.8	0.8	1.67	10	38.00	1.00	4	2.6	0.33	....	......	10
5	4	0.7	1.11	10	32.00	1.00	3.1	2	0.33	....	......	10
5	3.5	1	1.39	10	44.00	1.00	4.8	3.2	0.33	....	......	10
5	3.6	0.8	1.11	10	28.00	1.00	2.5	1.6	0.33	....	......	10
4.5	1.6	0.4	0.83	10	16.00	1.00	1.5	0.9	0.33	....	25	10
5	3.5	1	1.39	10	45.00	1.00	4.9	3.3	0.33	....	......	10
5	2	0.6	0.83	10	22.00	1.00	1.9	1.3	0.33	....	10	10
5	4.5	1	1.39	10	35.00	1.00	3.5	2.3	0.33	....	......	10

†Min. 500 watts.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1937, in Urban Municipalities

Municipality C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month*	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
	$ c.	cents		cents	cents	$ c.	%
Caledonia	26.54	.....	60	2.7	0.9	0.83	10
Campbellville	51.16	.....	45	6	2	2.22	10
Cannington	39.58	.....	55	3.6	1.5	1.11	10
Cardinal	30.29	.....	55	2.5	1.1	1.11	10
Carleton Place T	29.08	.....	55	2.8	1	0.83	10
Cayuga	39.80	.....	60	4.4	1.5	1.39	10
Chatham C	26.50	.....	60	3	1	0.83	10
Chatsworth	37.94	33–66	45	4	1.5	1.67	10
Chesley	34.37	.....	55	3	1.2	1.11	10
Chesterville	33.68	.....	55	2.6	1.2	0.83	10
Chippawa	21.40	.....	60	2.8	0.9	1.11	10
Clifford	47.69	33–66	50	4.4	1.5	1.39	10
Clinton	33.00	.....	60	3	1.3	1.11	10
Cobden	62.45	.....	30	5	1.5	1.66	10
Cobourg T	31.96	.....	55	3.4	1.2	0.83	10
Colborne	33.73	.....	60	4.1	1.2	0.83	10
Coldwater	32.83	33–66	55	2.5	1	1.11	10
Collingwood	35.88	.....	55	3	1	0.83	10
Comber	38.07	.....	60	4	1	1.11	10
Cookstown	47.08	.....	40	5.7	1.2	1.67	10
Cottam	38.78	.....	60	4	1.1	1.39	10
Courtright	62.86	.....	55	6	1.5	1.95	10
Creemore	50.06	.....	45	4.5	1.2	1.66	10
Dashwood	40.16	.....	60	4.2	1.2	1.11	10
Delaware	31.00	.....	60	3.5	1.2	1.11	10
Deseronto	45.05	.....	50	4.8	1.2	0.83	10
Dorchester	34.26	.....	60	3	1.1	0.83	10
Drayton	48.42	.....	55	4	1.3	1.11	10
Dresden	35.76	.....	60	2.7	0.9	1.11	10
Drumbo	33.38	.....	60	4	1.1	1.11	10
Dublin	53.29	33–66	60	6	1.5	1.67	10
Dundalk	37.54	.....	55	3.5	1.1	1.11	10
Dundas T	22.87	.....	60	2.5	0.9	0.83	10
Dunnville T	26.01	.....	60	2.4	0.8	0.83	10
Durham	40.06	.....	55	2.7	1.2	0.83	10
Dutton	31.99	.....	60	2.3	0.9	0.83	10
East York	28.60	.....	60	2.5	1.1	0.83	10
Elmira T	29.14	.....	60	3.9	1	0.83	10
Elmvale	37.49	.....	55	3.4	1.2	0.83	10
Elmwood	39.98	.....	45	5.7	1.5	1.39	10

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*Where domestic service charge has not been abolished the charge is 33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when 2,000 watts or more.

"E"—Continued

Domestic Service—Commercial Light Service—Power Service Served by The Hydro-Electric Power Commission

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	$ c.	%	$ c.	$ c.	cents	cents	cents	$ c.	%	%
5	2	0.6	0.83	10	20.00	1.00	1.6	1	0.33	....	10	10
5	5.8	1	2.22	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	2.8	1	1.11	10	33.00	1.00	3.2	2.1	0.33	....	......	10
5	2.3	1	1.11	10	32.00	1.00	3.1	2	0.33	Min. 2.78	......	10
5	2.2	0.8	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	4	1	1.39	10	38.00	1.00	4	2.6	0.33	....	......	10
5	2.3	0.7	0.83	10	21.00	1.00	1.8	1.1	0.33	....	10	10
5	4	1	1.67	10	38.00	1.00	4	2.6	0.33	....	......	10
5	2.5	0.8	1.11	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	2.6	1	0.83	10	24.00	1.00	2.3	1.5	0.33	....	10	10
5	2	0.6	1.11	10	24.00	1.00	2.3	1.5	0.33	....	10	10
5	4.4	1	1.39	10	45.00	1.00	4.9	3.3	0.33	....	......	10
5	2.4	0.7	1.11	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	4.5	1	1.66	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	2.7	1	0.83	10	20.00	1.00	1.6	1	0.33	....	10	10
5	3.1	1	0.83	10	32.00	1.00	3.1	2	0.33	....	......	10
5	2.5	1	1.11	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	2.5	0.8	0.83	10	19.00	1.00	2.0	1.4	0.33	....	25	10
5	3.2	1	1.11	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	4.5	1	1.67	10	32.00	1.00	3.1	2	0.33	....	......	10
5	3.2	1	1.39	10	32.00	1.00	3.1	2	0.33	....	......	10
5	5.5	1	1.95	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	3.5	1	1.66	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	4	1	1.11	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	3	1	1.11	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	3.8	1	0.83	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	2.2	1	0.83	10	27.00	1.00	2.3	1.5	0.33	....	......	10
5	3.4	0.7	1.11	10	32.00	1.00	3.1	2	0.33	....	......	10
5	2	0.6	1.11	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	3	0.8	1.11	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	6	1	1.67	10	38.00	1.00	4	2.6	0.33	....	......	10
5	2.7	1	1.11	10	25.00	1.00	2	1.3	0.33	....	......	10
5	1.9	0.5	0.83	10	16.00	1.00	1.5	0.9	0.33	....	25	10
5	2	0.6	0.83	10	17.00	1.00	1.7	1.1	0.33	....	25	10
5	2.3	0.8	0.83	10	24.00	1.00	2.3	1.5	0.33	....	10	10
5	1.9	0.5	0.83	10	19.00	1.00	2	1.4	0.33	....	25	10
5	2.0	0.6	0.83	10	20.00	1.00	1.6	1.0	0.33	....	10	10
5	3	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	2.4	1	0.83	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	4.5	1	1.39	10	35.00	1.00	3.5	2.3	0.33	....	......	10

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1937, in Urban Municipalities

Municipality C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municipality on a horsepower basis	Domestic service					
		Service charge per month*	First rate: Number of kw-hrs. per month	First rate: Per kw-hr. per month	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
	$ c.	cents		cents	cents	$ c.	%
Elora	31.07	.....	60	3.1	1.3	1.11	10
Embro	35.89	.....	60	3.4	1.2	1.39	10
Erieau	41.80	.....	60	3.8	1.1	1.39	10
Erie Beach	47.72	.....	60	5.3	1.5	1.67	10
Essex	30.30	.....	60	2.8	1	0.83	10
Etobicoke Twp.	24.16	.....	60	2.7	1.1	0.83	10
Exeter	33.20	.....	60	3.2	1	0.83	10
Fergus	29.22	.....	55	3.3	1.3	1.11	10
Finch	41.82	.....	45	3	1.2	1.66	10
Flesherton	44.21	.....	55	3.5	1.2	1.11	10
Fonthill	27.69	.....	60	3.5	1.2	1.39	10
Forest	39.03	.....	60	3.6	1	1.11	10
Forest Hill	.....	33–66	60	2	1.3	0.83	10
Fort William C	21.45	.....	60	2.3	0.9	0.83	10
Galt C	24.61	.....	60	2.8	0.8	0.83	10
Gamebridge	.....	.....	45	5.5	1.2	1.67	10
Georgetown T	30.21	.....	60	3	0.9	0.83	10
Glencoe	44.52	.....	60	4.2	1	1.11	10
Glen Williams	.....	33–66	60	2.7	1.3	0.83	10
Goderich T	36.76	.....	55	3.5	1.2	0.83	10
Grand Valley	50.36	.....	45	5.2	1.5	1.39	10
Granton	42.12	.....	60	3.3	1.2	1.11	10
Gravenhurst	23.36	.....	55	2.2	0.9	0.83	10
Guelph C	24.22	.....	60	2	0.8	0.83	10
Hagersville	28.15	33–66	60	2	1	0.83	10
Hamilton C	21.73	.....	60	2.4	0.8	0.83	10
Hanover T	31.42	.....	60	3	1.5	0.83	10
Harriston	37.25	.....	55	3.5	1.1	1.11	10
Harrow	31.74	.....	60	3.5	1.1	0.83	10
Hastings	41.32	.....	45	5	1.5	1.39	10
Havelock	45.90	.....	50	4.5	1.5	0.83	10
Hensall	41.37	.....	60	3.8	1.1	1.11	10
Hespeler T	24.85	.....	60	3	0.9	0.83	10
Highgate	39.19	.....	60	3.4	1	1.11	10
Holstein	90.27	.....	40	5.5	1.5	1.67	10
Humberstone	25.18	.....	60	2.9	0.9	0.83	10
Huntsville T	27.49	.....	60	2.1	1	0.83	10
Ingersoll T	25.76	.....	60	2.5	1	0.83	10
Jarvis	33.83	.....	60	3.6	1	1.11	10
Kemptville	33.91	33–66	55	3	1.2	0.83	10

*Where domestic service charge has not been abolished the charge is 33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when 2,000 watts or more.

"E"—Continued

Domestic Service—Commercial Light Service—Power Service Served by The Hydro-Electric Power Commission

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	$ c.	%	$ c.	$ c.	cents	cents	cents	$ c.	%	%
5	2.8	0.7	1.11	10	21.00	1.00	1.8	1.1	0.33	....	10	10
5	2.8	0.8	1.39	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	3.6	1	1.39	10	40.00	1.00	4.3	2.8	0.33	Min. 2.22	......	10
5	5	1	1.67	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	2.1	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	....	10	10
5	2	0.6	0.83	10	20.00	1.00	1.6	1	0.33	....	10	10
5	2.3	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	....	10	10
5	2.6	0.7	1.11	10	20.00	1.00	1.6	1.	0.33	....	10	10
5	2.8	1	1.66	10	42.00	1.00	4.6	3	0.33	....	......	10
5	2.8	1	1.11	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	2.8	0.7	1.39	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	3.1	0.7	1.11	10	32.00	1.00	3.1	2	0.33	....	......	10
5	2	0.75	0.83	10	21.00	1.00	1.8	1.1	0.33	....	10	10
5	2	0.6	0.83	10	....	1.00	1.7	1.1	‡0.33 ‡‡0.133	....	25	10
5	2.3	0.4	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	4.8	0.8	1.67	10	38.00	1.00	4	2.6	0.33	....	......	10
5	2	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	3.3	1	1.11	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	2.8	0.75	0.83	10	34.00	1.00	3.4	2.2	0.33	....	......	10
5	2.8	0.6	0.83	10	27.00	1.00	2.3	1.5	0.33	....	......	10
5	4.3	1	1.39	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	2.6	1	1.11	10	27.00	1.00	2.3	1.5	0.33	....	......	10
5	1.8	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	1.6	0.3	0.83	10	14.00	1.00	1.1	0.7	0.33	....	25	10
5	2	0.75	0.83	10	20.00	1.00	1.6	1	0.33	....	10	10
†5	1.6	0.35	0.83	10	15.00	1.00	1.3	0.8	0.33	....	25	10
5	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	2.8	0.9	1.11	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	2.6	0.8	0.83	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	4.5	1	1.39	10	37.00	1.00	3.8	2.5	0.33	....	......	10
5	4	1	0.83	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	3.3	1	1.11	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	2.2	0.6	0.83	10	19.00	1.00	2	1.4	0.33	....	25	10
5	3	0.8	1.11	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	5	1	1.67	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	2	0.6	0.83	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	1.8	0.8	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	1.9	0.5	0.83	10	17.00	1.00	1.7	1.1	0.33	....	25	10
5	2.8	0.7	1.11	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	2.8	1	0.83	10	28.00	1.00	2.5	1.6	0.33	....	......	10

†Min. 500 watts.

‡Next 360 hours' use.
‡‡All additional.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1937, in Urban Municipalities

Municipality C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month*	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
	$ c.	cents		cents	cents	$ c.	%
Kincardine..........T	43.36	33–66	40	4	1.5	1.11	10
Kingston............C	24.00–36.00	.....	50	2.2	0.8	0.83	10
Kingsville...........T	31.96	.....	60	3	1	0.83	10
Kirkfield.............	54.42	33–66	40	6	2	2.22	10
Kitchener...........C	23.82	.....	60	2.4	0.9	0.83	10
Lakefield.............	35.95	.....	50	3.6	1.5	0.83	10
Lambeth.............	34.94	.....	60	3.2	1.1	1.11	10
Lanark...............	39.13	33–66	50	4	1.5	0.83	10
Lancaster............	61.78	.....	60	5.5	1.2	1.66	10
La Salle..............	32.26	.....	60	3.8	1.3	1.11	10
Leamington..........T	31.86	.....	60	2.6	0.9	0.83	10
Leaside..............	.....	*a*3	..	*b*1.8	1.5	0.83	10
Lindsay.............T	33.61	.....	60	2.5	1	0.83	10
Listowel.............T	31.07	.....	55	2.9	1.1	0.83	10
London.............C	23.54	.....	60	2.4	0.9	0.83	10
London Twp..........	27.65	.....	60	2.8	0.9	1.11	10
Long Branch..........	25.66	.....	60	2.7	1.1	0.83	10
Lucan................	32.57	.....	60	3.4	1.2	1.11	10
Lucknow..............	50.33	33–66	45	4.2	1.5	1.67	10
Lynden..............	30.31	.....	60	3.6	1.2	1.39	10
Madoc...............	42.43	.....	50	3.2	1.2	0.83	10
Markdale.............	35.75	.....	55	3.3	1.1	1.11	10
Markham.............	32.11	.....	60	3.2	1	1.11	10
Marmora.............	38.20	.....	60	4.3	1.2	1.11	10
Martintown...........	45.37	.....	45	3.8	1.2	1.66	10
Maxville.............	47.31	.....	55	5.8	1.5	1.66	10
Meaford.............T	39.03	33–66	60	2.5	1.2	0.83	10
Merlin...............	38.07	.....	60	4.2	1	1.11	10
Merritton............T	20.66	.....	60	2.4	0.9	0.83	10
Midland.............T	30.63	33–66	60	2	1	0.83	10
Mildmay.............	42.83	.....	40	3.8	1	1.39	10
Milton...............	28.94	.....	60	3.5	1.2	0.83	10
Milverton............	30.83	.....	60	2.7	1.1	1.00	10
Mimico.............T	23.22	.....	60	2.7	1.1	0.83	10
Mitchell.............	29.44	.....	60	2.9	1.3	0.83	10
Moorefield...........	57.43	.....	50	5.1	1.5	1.39	10
Mount Brydges.......	35.02	.....	60	3.2	1	1.11	10
Mount Forest.........	43.60	.....	60	2.7	1.25	0.83	10
Napanee.............T	30.43	.....	50	3.5	1.2	0.83	10
Neustadt.............	58.65	33–66	60	6	2	1.67	10

*Where domestic service charge has not been abolished the charge is 33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when 2,000 watts ar more.

"E"—Continued

Domestic Service—Commercial Light Service—Power Service Served by The Hydro-Electric Power Commission

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	$ c.	%	$ c.	$ c.	cents	cents	cents	$ c.	%	%
5	3.8	1	1.11	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	1.6	0.5	0.83	10	16.00	1.00	1.5	0.9	0.33	....	25	10
5	2.1	0.6	0.83	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	6	1	2.22	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	1.9	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	2.8	1	0.83	10	24.00	1.00	2.3	1.5	0.33	....	10	10
5	2.8	0.9	1.11	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	4	1	0.83	10	45.00	1.00	4.9	3.3	0.33	....	......	10
5	5.5	1	1.66	10	62.00	1.00	7.5	5	0.33	....	......	10
5	3.3	1	1.11	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	2	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	....	10	10
......	[c]3 & 1	1/3	0.83	10	....	[d]1.10 0.90	2	1	[e]1/3 1/6	....	......	10
5	2.2	0.8	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	2.4	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	....	10	10
5	1.8	0.4	0.83	10	16.00	1.00	1.5	0.9	0.33	....	25	10
5	2.2	0.6	1.11	10	21.00	1.00	1.8	1.1	0.33	....	10	10
5	2	0.6	0.83	10	20.00	1.00	1.6	1	0.33	....	10	10
5	3	0.7	1.11	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	4.2	1	1.67	10	38.00	1.00	4	2.6	0.33	....	......	10
5	3	1	0.83	10	26.00	1.00	2.3	1.4	0.33	....	......	10
5	3	0.9	0.83	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	2.5	1	1.11	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	2.8	0.7	1.11	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	3.6	1	1.11	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	3.8	1	1.66	10	45.00	1.00	4.9	3.3	0.33	....	......	10
5	5.5	1	1.66	10	45.00	1.00	4.9	3.3	0.33	....	......	10
5	2.5	0.8	0.83	10	27.00	1.00	2.3	1.5	0.33	....	......	10
5	3.5	1	1.11	10	30.00	1.00	2.8	1.8	0.33	Min. 2.22	......	10
5	1.7	0.5	0.83	10	16.00	1.00	1.5	0.9	0.33	....	25	10
5	2	1	0.83	10	17.00	1.00	1.7	1.1	0.33	....	25	10
5	3	0.8	1.39	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	2.6	0.6	0.83	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	2.6	0.8	1.00	10	22.00	1.00	1.9	1.3	0.33	....	10	10
5	2	0.6	0.83	10	22.00	1.00	1.9	1.3	0.33	....	10	10
7	2.4	0.7	0.83	10	22.00	1.00	1.9	1.3	0.33	....	10	10
5	4.3	1	1.39	10	44.00	1.00	4.8	3.2	0.33	....	......	10
5	2.4	0.7	1.11	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	2.2	0.9	0.83	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	2.8	0.75	0.83	10	19.00	1.00	2	1.4	0.33	....	25	10
5	6	1	1.67	10	40.00	1.00	4.3	2.8	0.33	....	......	10

[a] Service charge per 100 sq. ft.

[b] Per kw-hr for first 3 kw-hrs. per 100 sq. ft.

[c] First 90 hours' use 3 cents per kw-hr.
Next 90 hrs' use 1 cent per kw-hr.

[d] First 7.5 kilowatts $1.10 per kilowatt.
All additional, 90 cents per kilowatt.

[e] 1/3 cent per kw-hr. next 300 hours—
All additional 1/6 cent per kw-hr.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1937, in Urban Municipalities

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
			First rate				
C—City T—Town (pop. 2,000 or more)		Service charge per month*	Number of kw-hrs. per month	Per kw-hr. per month	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
	$ c.	cents		cents	cents	$ c.	%
Newbury	42.15	33–66	45	5	1.5	1.38	10
Newcastle	34.22	33–33	60	5	2	1.11	10
New Hamburg	28.81	.....	60	3.5	1.2	0.83	10
New Toronto T	25.41	.....	60	2.4	1	0.83	10
Niagara Falls C	19.15	.....	60	2.5	0.8	0.83	10
Niagara-on-the-Lake	23.92	.....	60	2.8	1.1	0.83	10
Nipigon Twp.	25.36	.....	55	3.5	1	1.39	10
North York Twp.	27.96	.....	55	4	1.4	1.11	10
Norwich	29.74	.....	60	2.8	1	0.83	10
Norwood	36.67	.....	50	4.5	1.5	1.11	10
Oil Springs	36.91	.....	60	2.8	1	1.11	10
Omemee	.....	.....	60	3.5	1.3	0.83	10
Orangeville T	43.56	.....	55	3.3	1.1	1.11	10
Oshawa C	31.16	.....	50	3.8	1.1	0.83	10
Ottawa C	14.65	33–66	60 60	2 1	0.5	0.83	10
Otterville	37.36	.....	60	3	1	1.11	10
Owen Sound C	31.38	.....	60	2.2	1	0.83	10
Paisley	49.40	33–66	45	4.6	1.2	1.39	10
Palmerston	33.84	.....	60	2.9	1.1	1.11	10
Paris T	24.59	.....	60	2.3	0.9	0.83	10
Parkhill	49.45	.....	60	4.8	1.3	1.39	10
Penetanguishene T	34.64	.....	55	3.3	1.3	0.83	10
Perth T	28.39	.....	55	2.8	1	0.83	10
Peterborough C	27.19	.....	55	2.7	1.2	0.83	10
Petrolia T	34.26	.....	60	2.8	0.9	0.83	10
Picton T	41.45	.....	60	2.8	1	0.83	10
Plattsville	40.68	.....	60	4.2	1.2	1.11	10
Point Edward	32.19	.....	60	3.3	1.1	0.83	10
Port Arthur C	21.03	.....	50	2	0.8	0.83	10 & 10
Port Colborne T	24.91	.....	60	3	1	0.83	10
Port Credit	28.12	.....	60	2.5	1	0.83	10
Port Dalhousie	24.95	.....	60	2.6	1	0.83	10
Port Dover	30.44	.....	60	2.6	0.9	0.83	10
Port Elgin	40.64	33–66	40	2.5	1.2	1.11	10
Port Hope T	32.64	.....	60	2.7	1	0.83	10
Port McNicoll	36.38	33–66	50	3.5	1.5	0.83	10
Port Perry	44.87	.....	50	4	1.2	1.11	10
Port Rowan	37.20	.....	60	4.2	1.5	1.67	10
Port Stanley	32.41	.....	60	3.1	1	0.83	10
Prescott T	27.04	.....	60	2.3	1.	0.83	10

*Where domestic service charge has not been abolished the charge is 33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when 2,000 watts or more.

"E"—Continued

Domestic Service—Commercial Light Service—Power Service Served by The Hydro-Electric Power Commission

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	$ c.	%	$ c.	$ c.	cents	cents	cents	$ c.	%	%
5	5	1	1.38	10	49.00	1.00	5.6	3.7	0.33	....	......	10
5	5	2	1.11	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	1.8	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	1.6	0.35	0.83	10	15.00	1.00	1.3	0.8	0.33	....	25	10
5	2.2	0.6	0.83	10	22.00	1.00	1.9	1.3	0.33	....	10	10
5	2.5	1	1.39	10	25.00	1.00	2	1.3	0.33	....	......	10
5	3.3	0.7	1.11	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	2.2	0.6	0.83	10	20.00	1.00	1.6	1	0.33	....	10	10
5	4	1	1.11	10	38.00	1.00	4	2.6	0.33	....	......	10
5	2.4	0.7	1.11	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	3.5	1	0.83	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	2.2	1	1.11	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	2.8	0.8	0.83	10	21.00	1.00	1.8	1.1	0.33	....	10	10
......	†5 ††2.2	0.5	0.83	10	20.00	1.00	1.8	1.2	0.15	....	15	10
5	2.6	0.6	1.11	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	2	0.8	0.83	10	17.00	1.00	1.7	1.1	0.33	....	25	10
5	4.6	1	1.39	10	42.00	1.00	4.6	3	0.33	....	......	10
5	2.4	0.9	1.11	10	24.00	1.00	2.3	1.5	0.33	....	10	10
5	1.8	0.4	0.83	10	16.00	1.00	1.5	0.9	0.33	....	25	10
5	4.4	1	1.39	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	2.9	0.9	0.83	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	2	0.6	0.83	10	17.00	1.00	1.7	1.1	0.33	....	25	10
5	2.3	0.9	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	2.1	0.6	0.83	10	24.00	1.00	2.3	1.5	0.33	....	10	10
5	2	0.8	0.83	10	19.00	1.00	2	1.4	0.33	....	25	10
5	3.5	1	1.11	10	35.00	1.00	3.5	2.3	0.33	Min. 2.00	......	10
5	2.4	0.6	0.83	10	24.00	1.00	2.3	1.5	0.33	....	10	10
5	1.8	0.3	0.83	10 & 10	17.00	1.00	1.7	1.1	‡0.33 0.133	....	25	10
5	2.5	0.6	0.83	10	24.00	1.00	2.3	1.5	0.33	....	10	10
5	2	0.7	0.83	10	22.00	1.00	1.9	1.3	0.33	....	10	10
5	2	0.6	0.83	10	17.00	1.00	1.7	1.1	0.33	....	25	10
5	2.2	0.8	0.83	10	27.00	1.00	2.3	1.5	0.33	....	......	10
5	2.5	0.8	1.11	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	2.4	0.8	0.83	10	20.00	1.00	1.6	1	0.33	....	10	10
5	3.5	1	0.83	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	3.2	1	1.11	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	3.8	1	1.67	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	2.4	0.6	0.83	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	2	0.8	0.83	10	19.00	1.00	2	1.4	0.33	....	25	10

†First 30 hours' use per kw-hr. ††Next 70 hours' use per kw-hr.

‡0.33 cents per kw-hr for next 360 hours' use plus 0.133 cents per kw-hr for all additional.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1937, in Urban Municipalities

Municipality C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month*	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
	$ c.	cents		cents	cents	$ c.	%
Preston T	24.48	.....	60	2.6	0.8	0.83	10
Priceville	47.83	33–66	60	6	2	1.67	10
Princeton	37.31	.....	60	3.3	1.2	1.67	10
Queenston	25.47	.....	60	3	1.3	1.11	10
Richmond	45.88	.....	35	5.5	1.5	1.95	10
Richmond Hill	30.01	33–66	60	2	0.8	0.83	10
Ridgetown	32.06	.....	60	2.4	0.9	0.83	10
Ripley	67.61	33–66	55	6	1.5	1.67	10
Riverside T	30.38	.....	60	4	1.4	0.83	10
Rockwood	33.24	.....	60	3.3	1.1	1.11	10
Rodney	43.92	.....	60	3	1.1	0.83	10
Rosseau	85.96	‡33	..	6	2	‡2.22	10
Russell	48.10	.....	55	5.2	1.5	1.39	10
St. Catharines C	20.80	.....	45–60	2.2	0.8	0.83	10
St. Clair Beach	36.03	.....	60	4.2	1.3	1.67	10
St. George	31.85	.....	60	3.2	1.1	1.11	10
St. Jacobs	28.29	.....	60	3.2	1.2	1.11	10
St. Marys T	29.68	.....	60	3.8	1.1	0.83	10
St. Thomas C	24.28	.....	60	2.4	0.8	0.83	10
Sarnia C	29.07	.....	60	2.7	0.9	0.83	10
Scarboro Twp.	26.88	.....	60	2.9	1.1	0.83	10
Seaforth	31.37	.....	60	2.9	1.1	0.83	10
Shelburne	41.62	.....	50	4.1	1.2	1.11	10
Simcoe T	25.36	.....	60	2.5	0.8	0.83	10
Smiths Falls T	26.25	.....	55	3.2	1	0.83	10
Southampton	39.88	33–66	40	3	1.5	1.11	10
Springfield	46.09	.....	60	3.6	1.1	1.11	10
Stamford Twp.	19.57	.....	60	3.3	1.25	0.83	10
Stayner	37.91	.....	55	3	1.2	0.83	10
Stirling	28.20	.....	60	2.5	1	0.83	10
Stouffville	38.09	.....	60	3.4	1.1	1.11	10
Stratford C	25.80	.....	60	3	1	0.83	10
Strathroy T	27.50	.....	60	2.7	0.9	0.83	10
Streetsville	31.89	.....	55	4.4	1	0.83	10
Sunderland	55.84	.....	45	5	1.2	1.39	10
Sutton	41.10	.....	50	4.3	1.6	1.11	10
Swansea	28.86	33–66	60	2	1.3	0.83	10
Tara	39.73	33–66	40	4	1.8	1.11	10
Tavistock	30.31	33–66	60	2.5	1	0.83	10
Tecumseh T	34.53	.....	60	4	1.1	1.11	10
Teeswater	49.11	.....	50	5	1.5	1.39	10
Thamesford	31.31	.....	60	2.7	1	1.11	10
Thamesville	31.68	.....	60	2.7	1	0.83	10
Thedford	55.41	.....	55	5.4	1.5	1.39	10
Thorndale	49.96	.....	60	4.7	1.6	1.39	10

*Where domestic service charge has not been abolished the charge is 33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when 2,000 watts or more.

"E"—Continued

Domestic Service—Commercial Light Service—Power Service Served by The Hydro-Electric Power Commission

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	$ c.	%	$ c.	$ c.	cents	cents	cents	$ c.	%	%
5	2.1	0.5	0.83	10	16.00	1.00	1.5	0.9	0.33	....	25	10
5	6	1	1.67	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	3	1	1.67	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	2.8	1	1.11	10	25.00	1.00	2	1.3	0.33	....	......	10
5	5.5	1	1.95	10	55.00	1.00	6.5	4.3	0.33	....	......	10
5	2	0.5	0.83	10	22.00	1.00	1.9	1.3	0.33	....	10	10
5	1.9	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	6	1	1.67	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	3	0.7	0.83	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	2.5	0.7	1.11	10	32.00	1.00	3.1	2	0.33	....	......	10
5	2.6	0.6	0.83	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	6	2	‡2.22	10	58.00	1.00	6.9	4.6	0.33	....	......	10
5	4.5	1	1.66	10	50.00	1.00	5.7	3.8	0.33	....	......	10
†5	1.5	1/3	0.83	10	14.00	1.00	1.1	0.7	§0.33 0.16	....	25	10
5	4.3	1	1.67	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	2.7	0.6	1.11	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	2.6	0.8	1.11	10	22.00	1.00	1.9	1.3	0.33	....	10	10
5	2.7	0.9	0.83	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	1.7	0.3	0.83	10	15.00	1.00	1.3	0.8	0.33	....	25	10
5	2	0.4	0.83	10	20.00	1.00	1.6	1	0.33	....	10	10
5	2.2	0.5	0.83	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	2.2	0.7	0.83	10	22.00	1.00	1.9	1.3	0.33	....	10	10
5	2.7	1	1.11	10	25.00	1.00	2.0	1.3	0.33	....	......	10
5	1.8	0.5	0.83	10	21.00	1.00	1.8	1.1	0.33	....	10	10
5	2	0.6	0.83	10	20.00	1.00	1.6	1	0.33	....	10	10
5	3	1	1.11	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	3	1	1.11	10	34.00	1.00	3.4	2.2	0.33	....	......	10
5	2.25	0.6	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	2.3	1	0.83	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	2	1	0.83	10	25.00	1.00	2	1.3	0.33	....	......	10
5	2.7	0.8	1.11	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	2	0.5	0.83	10	21.00	1.00	1.8	1.1	0.33	....	10	10
5	2.1	0.5	0.83	10	20.00	1.00	1.6	1	0.33	....	10	10
5	2.6	0.7	0.83	10	31.00	1.00	2.9	1.9	0.33	....	......	10
5	4.3	1	1.39	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	3.7	1	1.11	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	2	0.75	0.83	10	21.00	1.00	1.8	1.1	0.33	....	10	10
5	4	1	1.11	10	45.00	1.00	4.9	3.3	0.33	....	......	10
5	2.3	0.7	0.83	10	21.00	1.00	1.8	1.1	0.33	....	10	10
5	3.2	0.7	1.11	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	4	1	1.39	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	2.1	0.6	1.11	10	22.00	1.00	1.9	1.3	0.33	....	10	10
5	2.1	0.6	0.83	10	25.00	1.00	2	1.3	0.33	....	......	10
5	5	1	1.39	10	52.00	1.00	6	4	0.33	....	......	10
5	3.8	1	1.39	10	45.00	1.00	4.9	3.3	0.33	....	......	10

†Min. 500 watts.

‡According to consumers' demand.

§0.33 cents per kw-hr for next 200 hours' use plus 0.16 cents per kw-hr for all additional.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1937, in Urban Municipalities

Municipality C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month*	First rate: Number of kw-hrs. per month	First rate: Per kw-hr. per month	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
	$ c.	cents		cents	cents	$ c.	%
Thornton	58.76	33–66	60	6	2	1.67	10
Thorold T	21.77	.....	60	2.2	0.8	0.83	10
Tilbury	31.71	.....	60	2.4	0.8	0.83	10
Tillsonburg T	27.76	.....	60	2.3	0.9	0.83	10
Toronto C	23.42	*a*3	..	*b*1.8	1	0.83	10
Toronto Twp.	28.42	.....	60	3	1.1	1.11	10
Tottenham	75.28	33–66	35	6	2	1.67	10
Trafalgar twp. Area 1	26.81	.....	60	3.1	1.7	0.83 ‡2.22	10
Trafalgar twp. Area 2	28.54	.....	60	3.8	1.4	1.11	10
Trenton T	25.49	.....	50	3	1	0.83	10
Tweed	48.46	.....	50	4.5	1.2	1.11	10
Uxbridge	46.65	.....	50	3.6	1.2	1.11	10
Victoria Harbour	39.14	.....	55	3.5	1.2	1.11	10
Walkerton T	31.65	.....	50	3.6	1.1	1.11	10
Wallaceburg T	30.59	.....	60	2.7	0.9	0.83	10
Wardsville	46.17	33–66	50	6	2	1.67	10
Warkworth	39.18	.....	50	4	1.2	1.11	10
Waterdown	26.24	.....	60	2.7	1	0.83	10
Waterford	27.00	.....	60	2.4	0.9	0.83	10
Waterloo T	24.24	.....	60	2.4	0.9	0.83	10
Watford	41.62	.....	60	3.5	1	1.11	10
Waubaushene	37.52	.....	55	2.7	0.9	0.83	10
Welland C	20.11	.....	60	2.8	0.9	0.83	10
Wellesley	40.96	.....	50	4.8	1.3	1.11	10
Wellington	38.28	33–66	50	2.5	1.25	0.83	10
West Lorne	37.24	.....	60	3	0.9	0.83	10
Weston T	23.48	.....	60	2.4	0.9	0.83	10
Westport	56.48	33–66	35	6	2	2.50	10
Wheatley	42.05	.....	60	4	1.1	1.11	10
Whitby T	31.32	.....	60	2.8	1	0.83	10
Wiarton	52.96	.....	40	4.5	1.5	1.39	10
Williamsburg	30.40	.....	60	2	0.8	0.83	10
Winchester	31.65	.....	60	2.4	1.2	0.83	10
Windermere	51.69	†33	..	6	2	†2.22	10
Windsor C	25.77	.....	60	3.3	0.9	0.83	10
Wingham	48.00	.....	50	3.5	1.3	1.11	10
Woodbridge	27.79	.....	60	3	1.1	0.83	10
Woodstock C	24.65	.....	60	2.4	0.8	0.83	10
Woodville	51.70	.....	50	3.8	1	1.11	10
Wyoming	44.15	.....	60	3.5	1	1.11	10
York Twp.	.....	33–66	60	2	1.3	0.83	10
Zurich	49.57	.....	60	4.5	1.2	1.39	10

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*Where domestic service charge has not been abolished the charge is 33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when 2,000 watts or more.

†According to consumers' demand.

‡Over 10 kilowatt.

*a*Service charge per 100 sq. ft.

*b*Per kw-hr for first 3 kw-hrs per 100 sq. ft.

"E"—Concluded
Domestic Service—Commercial Light Service—Power Service Served by The Hydro-Electric Power Commission

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	$ c.	%	$ c.	$ c.	cents	cents	cents	$ c.	%	%
5	6	1	1.67	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	1.6	0.35	0.83	10	16.00	1.00	1.5	0.9	0.33	....	25	10
5	1.8	0.5	0.83	10	17.00	1.00	1.7	1.1	0.33	....	25	10
5	1.8	0.4	0.83	10	19.00	1.00	2	1.4	0.33	....	25	10
......	*c* 3 & 1	1/3	0.83	10	....	*d* D.C. A.C.	3 2	1.2 1	0.60 *e* 1/3 1/6	....	......	10
5	2.2	0.6	1.11	10	22.00	1.00	1.9	1.3	0.33	....	10	10
10	6	1	1.67	10	45.00	1.00	4.9	3.3	0.33	....	......	10
5	2.8	0.7	0.83	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	2.8	0.7	1.11	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	2.6	0.8	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	4	1	1.11	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	3	0.9	1.11	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	2.8	0.9	1.11	10	32.00	1.00	3.1	2	0.33	....	......	10
5	2.4	0.9	1.11	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	2.1	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	....	10	10
5	6	1	1.67	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	3	1	1.11	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	2.1	0.6	0.83	10	20.00	1.00	1.6	1	0.33	....	10	10
5	1.9	0.6	0.83	10	17.00	1.00	1.7	1.1	0.33	....	25	10
5	1.9	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	3	1	1.11	10	32.00	1.00	3.1	2	0.33	....	......	10
5	1.8	0.8	0.83	10	33.00	1.00	3.2	2.1	0.33	....	......	10
5	2	0.5	0.83	10	17.00	1.00	1.7	1.1	0.33	....	25	10
5	3.8	1	1.11	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	2.5	1	0.83	10	36.00	1.00	3.7	2.4	0.33	....	......	10
5	2.4	0.6	0.83	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	1.6	0.4	0.83	10	16.00	1.00	1.5	0.9	0.33	....	25	10
5	6	1	2.50	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	3.5	1	1.11	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	2.3	0.6	0.83	10	24.00	1.00	2.3	1.5	0.33	....	10	10
5	4	1	1.39	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	2	0.8	0.83	10	32.00	1.00	3.1	2	0.33	....	......	10
5	2	0.8	0.83	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	6	2	†2.22	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	2.4	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	....	10	10
5	3	0.8	1.11	10	33.00	1.00	3.2	2.1	0.33	....	......	10
5	2.4	0.6	0.83	10	19.00	1.00	2	1.4	0.33	....	25	10
5	1.8	0.4	0.83	10	16.00	1.00	1.5	0.9	0.33	....	25	10
5	2.8	0.8	1.11	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	3.2	0.9	1.11	10	36.00	1.00	3.7	2.4	0.33	....	......	10
5	2	0.75	0.83	10	21.00	1.00	1.8	1.1	0.33	....	10	10
5	4	1	1.39	10	45.00	1.00	4.9	3.3	0.33	Min. 2.77	......	10

*c*First 90 hours' use 3 cents per kw-hr. Next 90 hours' use 1 cent per kw-hr.

*d*D.C. Service charge $1.50 per kw per month for first 7½ kw plus $1.05 per kw for all additional demand.

A.C. Service charge $1.10 per kw per month for first 7½ kw. plus $0.90 per kw for all additional demand.

*e*1/3 cent per kw-hr for next 300 hours' use plus 1/6 cent per kw-hr for all additional.

APPENDIX I

ACTS

CHAPTER 58

An Act to declare the Meaning of Subsection 4 of Section 6 of The Power Commission Act.

Assented to January 29th, 1937.
Session Prorogued March 25th, 1937.

Preamble.

WHEREAS by subsection 4 of section 6 of *The Power Commission Act* it is enacted—"Without the consent of the Attorney-General, no action shall be brought against the Commission or against any member thereof for anything done or omitted in the exercise of his office"; and whereas question has been raised as to the true meaning and effect of the said enactment and it is expedient that the meaning and effect of the said enactment should be further declared;

Therefore, His Majesty, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

Short title.

1. This Act may be cited as *The Power Commission Declaratory Act, 1937.*

Declaration as to meaning of Rev. Stat. c. 57, Sec. 6, subs. 4.

2. The meaning and effect of subsection 4 of section 6 of *The Power Commission Act* is and always has been that without the consent of the Attorney-General no action of any kind whatsoever shall be brought against The Hydro-Electric Power Commission of Ontario, and that without the consent of the Attorney-General no action of any kind whatsoever shall be brought against any member of The Hydro-Electric Power Commission of Ontario for anything done or omitted by him in the exercise of his office.

Commencement of Act.

3. This Act shall come into force on the day upon which it receives the Royal Assent.

CHAPTER 59

An Act to amend The Power Commission Act.

Assented to Jan. 29th, 1937.
Session Prorogued Mar. 25, 1937.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

Short title.

1. This Act may be cited as *The Power Commission Amendment Act, 1937*.

Rev. Stat., c. 57, s. 6, amended.

2. Section 6 of *The Power Commission Act* as amended by section 2 of *The Power Commissiom Act, 1929*, is further amended by adding thereto the following subsections:

Commission property exempt.

(6) No property of the Commission, or which is vested in the Commission, or to which the Commission may in any way be entitled, shall be subject to any process of law or proceeding for the purpose of satisfying or enforcing any judgment or order of any court of this Province heretofore or hereafter given, made, entered or issued, and for the purpose aforesaid the Commission shall have with respect to all its property all the exemptions, privileges and immunities which are possessed by the Crown with respect to the property of the Crown.

No process to issue against Commission.

(7) No execution, garnishment, attachment, receivership, sequestration, or any process of law or proceeding for satisfying or enforcing any judgment or order of any court of the Province heretofore or hereafter given, made, entered or issued against the Commission shall issue or be taken against the Commission or against any member, officer or servant of the Commission, or against any property of the Commission.

No process to be executed against Commission.

(8) No sheriff, bailiff, officer of any court, or other person whosoever, shall by himself or by his agent, servant or employee, execute or carry out, or assist in executing or carrying out, any execution, garnishment, attachment, receivership, sequestration or any process of law or proceeding against the Commission, or against any member, officer or servant of the Commission, or against any property of the Commission, for enforcing or satisfying any judgment or order of any court of the Province heretofore or hereafter given, made, entered or issued against the Commission.

Judgment or order not to create or constitute debt or liability.

(9) No judgment or order heretofore or hereafter given, made, entered or issued by any court of the Province against the Commission shall create or constitute a debt or liability of the Commission.

Commencement of Act.

3. This Act shall come into force on a day to be named by the Lieutenant-Governor by his Proclamation.

CHAPTER 60

An Act to amend The Power Commission Act.

Assented to March 25th, 1937.
Session Prorogued March 25th, 1937.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

Short title.

1. This Act may be cited as *The Power Commission Act, 1937.*

Rev. Stat., c. 57, s. 11, re-enacted.

2. Section 11 of *The Power Commission Act,* as amended by section 3 of *The Power Commission Amendment Act, 1935*, is repealed and the following substituted therefore:

Reserve Fund for.

11.—(1) The Commission may retain and set apart out of moneys coming into its hands such sums as may in the opinion of the Commission be sufficient for the following purposes:

Renewals;

(*a*) to provide for the renewal, reconstruction, alteration and repair of works constructed or operated by the Commission;

Interest and charges;

(*b*) to meet interest upon working capital and for the operations of the Commission under sections 40 and 51 of this Act, and to meet obligations, charges and expenses arising from time to time in the course of such operations;

Obsolescence;

(*c*) to meet any expenditures or costs caused by or arising from injury to, or destruction, obsolescence or loss of use of any works or other property of the Commission or otherwise incurred or payable by the Commission;

Insurance:

(*d*) to provide its own funds as insurance against loss or damage to any property of the Commission or loss or damage to the persons or property of others caused by or arising from the works or operations of the Commission.

Use

(2) The Commission may expend, use, apply, utilize and appropriate the moneys retained and set apart under subsection 1, or any part thereof, for any of the purposes of the said subsection.

Rev. Stat., c. 57, s. 11*a* (1930 c. 12, s. 2), re-enacted.

3. Section 11*a* of *The Power Commission Act,* as enacted by section 2 of *The Power Commission Act, 1930,* is repealed and the following substituted therefor:

Stabilization Fund Account.

11*a*.—(1) An account to be known as the "Stabilization Fund Account" shall be opened and maintained on the books of the Commission and the Commission may place to the credit of such account,—

(*a*) such amounts as the Commission may determine and collect for the purposes of this section from its customers;

(*b*) interest at such rates as the Commission shall deem equitable and just upon balances remaining from time to time to the credit of the account;

(*c*) any surplus, or balance or money or credit, or such portion thereof as the Commission may determine, howsoever or whenever accumulated or acquired, and notwithstanding the purpose or purposes for which or the manner in which the moneys may have been collected or may have been held, and whether or not it is or includes a surplus balance or credit held for or to the credit of any municipality or rural power district in any manner, under section 59 or otherwise.

Transfers

(2) Any such surplus, balance or credit now held by the Commission in any account or accounts may at any time or times in the discretion of the Commission be transferred to the said stabilization fund account.

Use.

(3) Any or all of the moneys in the said stabilization fund account may be used in the discretion of the Commission for determining, and for adjusting and apportioning (including making equitable and stabilizing) the amounts payable to the Commission by municipal corporations or persons.

Items chargeable to account.

(4) Costs and expenses incurred by the Commission which in the opinion of the Commission are for the protection or advancement of the interests in the undertakings under its supervision or control and are not properly chargeable to any system or to any municipal corporation under contract with the Commission may be charged by the Commission to the Stabilization Fund Account.

Rev. Stat., c. 57, s. 16, amended.

4.—(1) Section 16 of *The Power Commission Act* is amended by adding thereto the following subsection:

Continuance for former employees.

(3) (*a*) The Commission may continue to extend the provisions of subsection 1 to each employee of The Sandwich, Windsor and Amherstburg Railway to whom the Commission was extending the said provisions on the 21st day of September, 1934, but shall be under no obligation to do so if the required contributions to the said fund in respect of such employee cease to be paid to the Commission for any cause other than death or retirement on pension;

Employees may withdraw.

(*b*) Any such employee though still remaining an employee of the railway may at any time withdraw from the said fund upon giving to the Commission thirty days prior notice in writing;

(*c*) Any such employee who withdraws from the said fund or who for any cause other than death or retirement on pension ceases to be an employee of the railway shall, so far as relates to the said fund, be deemed to have left the service as in the case of contributing employees leaving the Commission's service, and may not again be included among those to whom this subsection applies; Leaving service.

(*d*) This subsection shall have effect notwithstanding that the Commission ceased to operate the said railway on the 22nd day of September, 1934, but only so long as the railway continues to be operated on behalf of or in trust for one or more municipalities. Effective though Commission not operating railway.

(*e*) The extension of the provisions of subsection 1 by the Commission to employees of the said railway prior to the date this Act comes into force is hereby confirmed and declared to be legal and valid. Prior Acts confirmed.

(2) Section 5*a* of *The Sandwich, Windsor and Amherstburg Railway Act, 1930,* as enacted by section 16 of *The Statute Law Amendment Act, 1935,* is repealed. 1930 c. 17, s. 5*a*. (1935 c. 66, s. 16), repealed.

5. Clause *a* of subsection 2 of section 20 of *The Power Commission Act,* as enacted by section 3 of *The Power Commission Act, 1931,* is repealed, and the following substituted therefor: Rev. Stat., c. 57, s. 20, subs. 2, cl. (*a*) (1931, c. 13, s. 3), re-enacted.

(*a*) Acquire by purchase, lease or otherwise, land, waters, water privileges, water powers, and works, used for, or adapted or useful for, or capable of being used or made useful for generating, transforming or transmitting electric power or energy; enter upon, take possession of, expropriate, acquire and use such land, waters, water privileges, water powers and works, without the consent of the owner thereof, or of any person in any manner entitled to any right, title, interest, claim or demand therein; and have and hold the same, however acquired or obtained, and develop, utilize, use, maintain, operate and improve them for any of the purposes of this Act. To acquire lands, water powers and works.

6. Section 23 of *The Power Commission Act* as re-enacted by section 3 of *The Power Commission Act, 1931,* is amended by adding at the end thereof the following words: Rev. Stat., c. 57, s. 23 (1931, c. 13, s. 3), amended.

> "provided, however, that where the lines or works of the Commission are situate upon a highway, whether it be the King's Highway or any other highway, compensation shall be payable only to the extent to which it is payable by a municipality for felling or removing trees or branches thereof under and by virtue of section 499 of *The Municipal Act.*" Removal of trees and obstructions. Rev. Stat., c. 233.

so that the said section shall now read as follows:

Removal of trees and obstructions.

23. The powers conferred upon the Commission by or under the authority of this Act, shall include the right to enter upon any land upon either side of the right-of-way acquired for the transmission or distribution lines or works of the Commission, or upon any land upon either side of such lines or works, and to fell or remove any trees or branches thereof or any other obstruction upon any such land or upon any public highway or place which, in the opinion of the Commission, it is necessary to fell or remove, but subject always to the payment of compensation as provided in section 21 of this Act, and the said section shall apply to the exercise of the powers mentioned in this section, provided, however, that where the lines or works of the Commission are situate upon a highway, whether it be the King's Highway or any other highway, compensation shall be payable only to the extent to which it is payable by a municipality for felling or removing trees or branches thereof under and by virtue of section 499 of *The Municipal Act*.

Rev. Stat., c. 233.

Rev. Stat., c. 57, s. 27, (1931, c. 13, s. 3), re-enacted.

7. Section 27 of *The Power Commission Act*, as re-enacted by section 3 of *The Power Commission Act, 1931*, is repealed and the following substituted therefor:

Disposal of works to a municipality.

27.—(1) The Commission, upon such terms as it deems proper, may lease, sell or otherwise dispose of to a municipal corporation or commission any works or any interest therein which the Commission is or has been using and which it deems advisable to so dispose of as aforesaid.

Acquiring property from municipality.

(2) The Commission may acquire from a municipal corporation or commission by purchase, lease or otherwise, upon such terms as the Commission may deem proper, any works or other property, real or personal, which the Commission may deem advisable for its purposes and such municipal corporation or commission may lease, sell or otherwise dispose of such works or other property to the Commission without the assent of the electors or the approval of the Ontario Municipal Board required by section 32 of *The Public Utilities Act* but otherwise such municipal corporation or commission shall comply with said section 32.

Rev. Stat., c. 249.

Joint use of works.

(3) The Commission, upon such terms as it deems proper, may contract with any corporation, firm or person for joint ownership or joint use of works or for rights to use the works of any corporation, firm or person or to permit any corporation, firm or person to use works of the Commission and for the purposes of this subsection, works shall include telephone and telegraph lines and other communication works either of the Commission or of any other corporation, firm or person in addition to the things mentioned in clause *b* of section 1.

(4) The Commission may, upon such terms as it deems proper, sell, lease or otherwise dispose of any property, real or personal, which it may deem unnecessary for its purposes. Sale of property.

8. Section 29 of *The Power Commission Act* as re-enacted by section 3 of *The Power Commission Act, 1931*, is amended by adding at the end thereof the following words: Rev. Stat., c. 57, s. 29 (1931, c. 13, s. 3) amended.

"and notwithstanding and regardless of the origin, nature and source of the owner's title thereto, and of the manner whereby it was acquired by the owner or any of his predecessors in title." Extent of powers of expropriation.

so that the said section shall now read as follows:

29. The compulsory powers conferred by this Act shall extend to land, works, rights, powers, privileges and property notwithstanding that they are or may be deemed to be devoted to a public use or that the owner thereof possesses the power of taking land compulsorily and notwithstanding and regardless of the origin, nature and source of the owner's title thereto, and of the manner whereby it was acquired by the owner or any of his predecessors in title. Extent of powers of expropriation.

9. *The Power Commission Act* is amended by adding thereto the following section: Rev. Stat., c. 57, amended.

30*a*. Where possession of land of the Commission has been taken by some other person, the right of the Commission, or anyone claiming under it, to recover it, shall not be barred by reason of the lapse of time, notwithstanding the provisions of *The Limitations Act*, or of any other Act of this Legislature, or by reason of any claim based on possession adverse to it for any period of time which might otherwise be made lawfully at common law, unless it is shown that the Commission had actual notice in writing of such adverse possession, and such notice was had by it ten years before it or the said person claiming under it commenced action to recover the said land; provided that no claim shall be acquired by possession, prescription, custom, user or implied grant to any way, easement, water-course or use of water or water right or privilege or flooding privilege of the Commission, or to any way, easement, water-course, or use of water, or right of drainage along, over, upon, on or from any land, or water or water right, or privilege of the Commission, notwithstanding provisions of *The Limitations Act* or any other Act of this Legislature or any claim at common law based on lapse of time, or length of enjoyment or use. Limitations Act not applicable. Rev. Stat., c. 106.

10. Section 31 of *The Power Commission Act* is amended by adding thereto the following subsection: Rev. Stat., c. 57, s. 31, amended.

Easement over lands sold for taxes not affected.

(4) Notwithstanding anything in *The Assessment Act*, *The Ontario Municipal Board Act, 1932*, *The Department of Municipal Affairs Act, 1935*, or *The Tax Sales Confirmation Act, 1936*, or any other Act of this Legislature, where land which was or is subject to easements, ways, rights of way or entry, flooding rights, licenses or rights to maintain works thereon, owned by or belonging to the Commission, has at any time before or after the coming into force of this Act been sold for taxes, or in respect of which a tax arrears vesting certificate has at any time before or after the coming into force of this Act been registered under the authority of section 109 of *The Ontario Municipal Board Act, 1932*, or section 44 of *The Department of Municipal Affairs Act, 1935*, such easements, ways, rights of way or entry, flooding rights, licenses, or rights to maintain works shall be deemed not to have been affected and shall not be affected by the sale or registration.

Rev. Stat., c. 57, s. 56 (1930, c. 12, s. 9) amended.

11. Clause *d* of section 56 of *The Power Commission Act*, as enacted by section 9 of *The Power Commission Act, 1930*, is repealed and the following substituted therefor:

(*d*) An amount to be determined by the Commission to be paid for the purposes of sections 11 and 11*a*.

Rev. Stat., c. 57, s. 66, amended.

12. Section 66 of *The Power Commission Act* is amended by striking out the last three lines and substituting therefor the following

Changes in rural power districts.

"and the Commission may unite any two or more rural power districts in one rural power district and may join into a rural power district or may include in a rural power district one or more townships or any part or parts thereof whether already part of any rural power district or not and may alter the boundaries of any rural power district."

so that the said section shall now read as follows:

Contracts for supply of power.

66. Subject to the approval of the Lieutenant-Governor in Council, the Commission may contract with the municipal corporation of a township, or with the municipal corporations of two or more townships, for the supply and distribution by the Commission of electrical power or energy in the township or townships; and the Commission may, with the approval of the corporation, lay out and define areas, hereinafter called "rural power districts," in the township or townships for the distribution of electrical power or energy; and the Commission may, on behalf of the corporation,

(*a*) acquire, construct, extend, reconstruct, hold, maintain, operate and administer all works necessary for the transmission to, and the transforming and distributing in, any such rural power district of electrical power or energy;

(*b*) supply electrical power or energy to customers of the corporation in any such rural power district;

(*c*) perform, enjoy and enforce all contracts in which the corporation agrees to supply or sell electrical power or energy to any such customer or at any premises within such rural power district,

and the Commission may unite any two or more rural power districts in one rural power district and may join into a rural power district or may include in a rural power district one or more townships or any part or parts thereof whether already part of any rural power district or not and may alter the boundaries of any rural power district.

Rev. Stat., c. 57, amended.

13. *The Power Commission Act* is amended by adding thereto the following section:

Right of Park Board to contract for power.

66*a*.—(1) Subject to the approval of The Lieutenant-Governor in Council, where any Act of this Legislature sets apart lands as a park, and provides for the appointment of a board of commissioners therefor, and makes such board of commissioners a body corporate, such board may purchase from the Commission electrical power or energy for use within the park, and may sell electrical power or energy to customers therein and execute contracts accordingly and the Commission may contract with the Board to supply and distribute such electrical power or energy.

When park to be rural power district.

(2) Upon the execution of a contract between the Commission and any such board, the Commission may make any such park a rural power district or part of a rural power district or incorporate the whole or any part of such park in any rural power district and the provisions of this or any other Act applying to a rural power district shall be applicable.

By-law No. 1591, Town of Cobourg confirmed.

14. By-law number 1591 of the corporation of the town of Cobourg, and all debentures issued or to be issued, or purporting to be issued under the said by-law are confirmed and declared to be legal, valid and binding upon the said corporation and the ratepayers thereof respectively, and shall also be binding upon any and all persons entitled to payment of the principal of or interest on the said debentures, and upon any and all persons entitled to payment of the principal of or interest on the debentures in lieu of which they are issued pursuant to the said by-law, and shall not be open to question upon any ground whatsoever notwithstanding the requirements of *The Power Commission Act* or *The Municipal Act* or any amendments thereto or any other general or special Act of this Legislature, or the terms of any previous contract or by-law of the said corporation.

By-laws confirmed.

15. By-law number 54 of the corporation of the city of Windsor and the agreement between the said corporation and The Hydro-Electric Power Commission of Ontario thereby authorized and by-law number 3325 of the corporation of the city of Belleville are confirmed and declared to be legal, valid and binding upon the said corporations, the ratepayers thereof, and The Hydro-Electric Power Commission of Ontario.

Commencement of Act.

16. This Act shall come into force on the day upon which it receives the Royal Assent.

CHAPTER 61

An Act to validate certain Contracts entered into by The Hydro-Electric Power Commission of Ontario and Ottawa Valley Power Company.

Assented to March 25th, 1937.
Session Prorogued March 25th, 1937.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

Short title.

1. This Act may be cited as *The Power Contracts Validation Act, 1937.*

Contracts declared legal and valid.

2. Notwithstanding anything contained in *The Power Commission Act, 1935*, or any other Act of this Legislature,—

1935, c. 53.

(*a*) the contract between The Hydro-Electric Power Commission of Ontario and Ottawa Valley Power Company bearing date the 4th day of February, 1937, set out as Schedule "A" hereto; and

(*b*) the two contracts between The Hydro-Electric Power Commission and Chats Falls Power Company, also known as Ottawa Valley Power Company, one contract dated the 15th day of February, 1930, and one contract dated the 24th of February, 1931, known respectively as the "Power Contract" and the "Operating Contract," set out in Schedule "D" to *The Power Commission Act, 1935,* as varied by the contract referred to in clause *a*;

are hereby ratified, confirmed and declared to be legal and valid.

Effect of certain Acts.

3. It is hereby declared that the rights of Ottawa Valley Power Company shall in no way be limited or affected by anything contained in *The Power Commission Act, 1935, The Power Commission Amendment Act, 1937, The Power Commission Declaratory Act, 1937,* or *The Privy Council Appeals Amendment Act, 1937.*

Commencement of Act.

4. This Act shall come into force on the day upon which it receives the Royal Assent.

SCHEDULE "A"

THIS AGREEMENT made this 4th day of February, A.D. 1937;

BETWEEN:

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO,
hereinafter called the "Commission"

OF THE FIRST PART,

—and—

OTTAWA VALLEY PAPER COMPANY,
hereinafter called the "Company"

OF THE SECOND PART.

WHEREAS the Commission entered into four several agreements with the Company either under its present name or its previous name of Chats Falls Power Company, which are respectively known as and dated (*a*) the Joint Development Agreement of 15th February, 1930; (*b*) the Power Contract of 15th February, 1930; (*c*) the Transformer Agreement of 24th February, 1931, and (*d*) the Operating Agreement of 24th February, 1931, and the said Agreements are referred to herein by the said names;

AND WHEREAS difficulties have arisen in connection with the same and the parties have agreed to enter into this further agreement varying in some respects the Power Contract and the Operating Agreement, terminating the Transformer Agreement, and in all other respects confirming the Joint Development Agreement, the Power Contract and the Operating Agreement;

NOW THEREFORE THIS AGREEMENT WITNESSETH that in consideration of an option of even date given by Calgary Power Company Limited to the Commission to buy all the issued capital stock of the Company and for the considerations herein contained the parties hereto covenant, promise and agree as follows:

1. The Power Contract is hereby amended as follows:

(*a*) Clause 2 (*a*) is amended by striking out the words "Two Hundred and Thirty Thousand (230,000) volts" and substituting therefor "Fourteen Thousand Five Hundred (14,500) volts"; and by striking out the words "Fifteen Per Cent. (15%)" and substituting therefor the words "Two Thousand Six Hundred and Forty (2,640) volts";

(*b*) Clause 2 (*d*) is amended by striking out the word "by" after the word "delivered" and substituting therefor the word "to";

(*c*) Clause 3 (*a*) is amended by striking out the words "Fifteen Dollars ($15.00)" and substituting therefor the words "Twelve Dollars and Fifty Cents ($12.50)" and by striking out the words "One Hundred and Twenty Thousand Dollars ($120,000)" and substituting therefor the words "One Hundred Thousand Dollars ($100,000)", and by striking out the words "one and one-quarter (1-1/4)" and substituting therefor the words "Twenty-five Twenty-fourths (25/24)"; and by adding at the end of said clause 3 (*a*) the following words, "Provided, however, that if at any time or times hereafter subsequent to the 30th day of September, 1945, during the term of this Contract, a higher rate is paid by The Hydro-Electric Power Commission of Ontario, directly or indirectly to any other corporation or person for electric power (from water) generated in the Province of Quebec, or from Quebec water in the Ottawa River or by virtue of Quebec water rights in the Ottawa River, for use in the Niagara System, then the rate payable under this contract during any such time shall be such higher rate;"

(*d*) Clause 4 (*d*) is amended by striking out the words "Two Hundred and Thirty Thousand (230,000) volts" in the second and third lines thereof and substituting therefor the words "Fourteen Thousand Five Hundred (14,500) volts" and by striking out the words "at the outgoing Two Hundred and Thirty Thousand (230,000) volt transmission line terminus on the transformer structures which it is contemplated will be near the Commission's generating station", and substituting therefor the words "at the point where the cables leading from the Company's generators to the Commission's step-up transformers cross the inter-provincial boundary between the Provinces of Ontario and Quebec";

(*e*) Clause 5 (*e*), fourth paragraph, is amended by striking out the figures "3.28" in the fifteenth line thereof, and substituting therefor the figires "2.73";

(*f*) Clause 11 is hereby struck out and the following substituted therefor:—"The rates to be paid and payments to be made by the Commission as set out in clause 3, shall (except as to any taxes imposed by the Province of Ontario in connection with the said development at Chats Falls) include all compensation to the Company for all taxes, levies, rentals, royalties, license fees and charges that may be levied, assessed or imposed by the Dominion, Provincial or Municipal or any other authority for or during the term of this Agreement or any part thereof:

(*g*) Clause 13 is amended by inserting after the words "power so withdrawn", the words, "during the remainder of the period that this Agreement continues in force", and by striking out the word "prompt" and substituting therefor the words "one year's":

2. The Transformer Agreement above referred to is hereby declared to be terminated and at an end and the Company hereby surrenders to the Commission any property, rights or interest which it has or may have had in the said transformer station as defined in the Transformer Agreement, and the Commission hereby releases the Company from all payments accrued or to accrue due by the Company under the said Transformer Agreement and from all claims in connection with the said Agreement or the said transformer station, and the Company releases the Commission from all claims under the Transformer Agreement and with respect to all payments already made by it under the said Agreement:

3. The above mentioned Operating Agreement is hereby amended as follows:

(*a*) In Clause 1, subclause (*c*) thereof is hereby struck out and the words "Two Hundred and Thirty Thousand (230,000) volts" are struck out and the words "Fourteen Thousand Five Hundred (14,500) volts" substituted therefor;

(*b*) Clause 4 is amended by striking out the words "other than in the transformer station";

(*c*) Clause 11 is amended by striking out the words "and the transformer station" in the seventh line of the first paragraph thereof, and by striking out the words "but expressly excluding renewals, replacements and re-construction provided for in the Transformer Agreement" in the tenth and eleventh lines thereof and substituting therefor "but expressly excluding any maintenance, operation, renewals, replacements and reconstruction of the Commission's transformer station";

(*d*) Clause (*e*) of clause 11 is hereby struck out;

(*e*) Clause 14 is hereby amended by striking out all the words following the words "Joint Development Agreement";

(*f*) Clause 19 is hereby struck out;

4. The Joint Development Agreement and the Power Contract as hereby amended, and the Operating Agreement as hereby amended are hereby ratified and confirmed and shall continue to be in full force and effect:

5. If this Agreement be finally ratified as hereinafter provided, then (*a*) all accounts, charges and claims of every kind between the Commission and the Company arising out of or connected with the Power Contract, the Operating Agreement and the Transformer Agreement or any of them up to the date of this Agreement are hereby cancelled; (*b*) the monies paid into court in any litigation between the parties hereto shall be paid out of court to the parties respectively, who paid in the same and the parties hereto will secure and furnish all necessary consents therefor:

6. The present appeal to His Majesty's Privy Council now pending between the parties hereto shall be postponed from the present sittings to the next sittings of the said Privy Council; And all proceedings in any other actions pending between the parties shall be stayed until the final ratification of this Agreement or until the time fixed therefor has expired:

7. Upon the said ratification of this Agreement the said appeal and all other litigation between the parties shall be discontinued without costs and the Company shall have no claim for any money payment against the Commission under the said judgment appealed from and will give the Commission a satisfaction piece or other release in respect of any money directed to be paid thereunder;

8. This Agreement shall be effective on and from the date hereof but shall cease to be effective on and after the First day of May, 1937, unless prior to that date the Trustee for the bondholders of the Company shall have given a valid consent to the modifications and changes in the Power Contract as herein provided, and this Agreement shall have been ratified by Act of the Ontario Legislature which said ratifying Act shall also declare that the rights of the Company shall in no way be limited or affected by anything contained in Chapter 53 of the Statutes of Ontario, 1935, 25 George V, or in any of the three Acts already passed by the Ontario Legislature in the year 1937 known as Bills Nos. 31, 32 and 33;

9. Pending such consent and ratification, the Power Contract and Operating Agreement as hereby amended shall be in full force and effect but if said consent and ratification be not finally obtained by the First of May, 1937, then the parties hereto shall revert to their respective positions as though this Agreement had not been entered into but all accounts between the parties for anything arising out of this Agreement shall be settled as of the said First of May, 1937:

10. The parties further agree that in case either of them shall at any time deem it advisable to obtain further legislative or other authority or power, to remove any doubt that may exist in regard to the power of the parties or either of them to enter into and perform this Agreement and the agreements between them herein referred to, the other party hereto shall at the request

of such first mentioned party, join in any application for and co-operate in obtaining such further legislative or other authority or power, but shall not be required to bear any part of the expense of such application.

In Witness Whereof the parties hereto have caused this Agreement to be executed under their corporate seals, attested by the signatures of their proper officers duly authorized thereto.

Signed, Sealed and Delivered
In the presence of

The Hydro-Electric Power Commission of Ontario
(Sgd.) T. S. Lyon,
Chairman.
(Seal)
(Sgd.) A. Murray McCrimmon,
Secretary and Controller.

Ottawa Valley Power Company
(Sgd.) C. W. Allen,
President.
(Seal)
(Sgd.) A. G. Mackinnon,
Secretary.

CHAPTER 71

The Shallow Lake and Tiverton Rural Power Act, 1937.

Assented to March 25th, 1937.
Session Prorogued March 25th, 1937.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

Short title.

1. This Act may be cited as *The Shallow Lake and Tiverton Rural Power Act, 1937.*

Shallow Lake and Tiverton deemed townships for rural power.

Rev. Stat., c. 57.

2. For the purposes of *The Power Commission Act* the municipalities of the villages of Shallow Lake and Tiverton shall each be deemed to be a township and Part IV of *The Power Commission Act* shall apply accordingly.

CHAPTER 80

The Village of Vienna Rural Power Act, 1937.

Assented to March 25th, 1937.
Session Prorogued March 25th, 1937.

HIS MAJESTY. by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

Short title.

1. This Act may be cited as *The Village of Vienna Rural Power Act, 1937.*

Vienna Village deemed township for rural power.

Rev. Stat., c. 57.

2. For the purposes of *The Power Commission Act* the municipality of the Village of Vienna shall be deemed a township and Part IV of *The Power Commission Act* shall apply accordingly.

APPENDIX II

TRANSMISSION LINE RECORDS

Corrected to October 31, 1937

including

Summaries of data respecting mileage of transmission lines

built or acquired by

The Hydro-Electric Power Commission of Ontario

APPENDIX

TOTAL MILEAGE OF TRANSMISSION LINES AND NUMBER OF

System and voltage	Line route miles		
	Total to Oct. 31, 1936	Additions 1937	Total to Oct. 31, 1937
Niagara System			
220,000-volt	705.27	......	705.27
110,000-volt	713.70	1.50	715.20
110,000-volt	67.16	......	67.16
90,000-volt	65.85	......	65.85
60,000-volt	94.23	*15.48	78.75
60,000-volt	23.95	*4.74	19.21
46,000-volt	16.94	15.48	32.42
46,000-volt	21.88	......	21.88
26,400-volt	608.18	*10.00	598.18
13,200-volt	453.16	0.42	453.58
13,200-volt	0.56	0.61	1.17
12,000-volt	111.76	6.15	117.91
Dominion Power division—44,000-volt	37.31	......	37.31
Dominion Power division—44,000-volt	141.36	......	141.36
Dominion Power division—22,000-volt	28.10	......	28.10
Dominion Power division—22,000-volt (concrete poles)	9.00	......	9.00
Dominion Power division—10,000-volt	14.52	......	14.52
Georgian Bay System			
110,000-volt	55.83	......	55.83
38,000-volt	40.84	16.46	57.30
22,000-volt	13.44	......	13.44
6,600-volt	2.30	......	2.30
Severn district—38,000-volt and less	176.46	*0.24	176.22
Eugenia district—38,000-volt and less	321.00	......	321.00
Wasdell district—22,000-volt	83.72	......	83.72
Muskoka district—38,000-volt and less	26.46	......	26.46
Eastern Ontario System			
110,000-volt	107.08	......	107.08
110,000-volt	43.12	120.32	163.44
44,000-volt	24.33	......	24.33
33,000-volt	33.86	......	33.86
Central district—44,000-volt and less	503.06	18.21	521.27
St. Lawrence district—44,000-volt	125.02	......	125.02
Rideau district—33,000-volt and less	76.99	......	76.99
Madawaska district—33,000-volt and less	58.81	......	58.81
Thunder Bay System			
110,000-volt	82.12	......	82.12
110,000-volt	83.33	94.88	178.21
44,000-volt	....	115.09	115.09
22,000-volt	0.35	......	0.35
12,000-volt	1.45	......	1.45
Northern Ontario Properties			
Abitibi district—132,000-volt	362.74	......	362.74
132,000-volt	182.04	8.15	190.19
26,400-volt and less	32.86	16.41	49.27
Nipissing district—22,000-volt	51.67	......	51.67
Sudbury district—22,000-volt	61.08	46.23	107.31
St. Joseph district—22,000-volt	28.14	......	28.14
Espanola district—33,000-volt	10.74	......	10.74
Total	5,701.77	†429.45	6,131.22

*Removals. †Net increase.

II

SUPPORTING STRUCTURES CONSTRUCTED AND ACQUIRED

Circuit miles			Number of steel towers			Number of wood poles		
Total to Oct. 31, 1936	Additions 1937	Total to Oct. 31, 1937	Total to Oct. 31, 1936	Additions 1937	Total to Oct. 31, 1937	Total to Oct. 31, 1936	Additions 1937	Total to Oct. 31, 1937
705.27	....	705.27	3,522	....	3,522	....	....	....
1,372.76	3.00	1,375.76	6,562	9	6,571	....	....	....
67.16	....	67.16	....	....	....	824	....	824
128.72	....	128.72	409	322	731	....	....	....
74.86	*15.48	59.38	949	*2	947	....	....	....
23.95	*4.74	19.21	....	....	....	644	*172	472
50.16	15.48	65.64	375	....	375	....	....	....
21.88	....	21.88	....	....	....	685	....	685
776.53	*24.84	751.69	....	....	....	23,560	*510	23,050
538.31	*9.86	528.45	....	....	....	17,829	*151	17,678
1.12	1.22	2.34	14	24	38	....	....	....
167.66	7.86	175.52	7	....	7	4,589	232	4,821
74.62	....	74.62	526	....	526	....	....	....
137.74	....	137.74	....	....	....	5,075	28	5,103
33.45	....	33.45	....	....	....	1,293	....	1,293
18.00	....	18.00	....	....	....	253	....	253
14.52	....	14.52	....	....	....	498	....	498
55.83	....	55.83	....	....	....	548	....	548
40.84	16.89	57.73	....	....	....	473	367	840
13.44	....	13.44	....	....	....	211	....	211
2.30	....	2.30	....	....	....	101	....	101
247.63	*0.48	247.15	....	....	....	7,452	*4	7,448
404.39	....	404.39	....	....	....	12,632	*1	12,631
87.66	....	87.66	....	....	....	3,267	1	3,268
26.46	....	26.46	....	....	....	1,148	....	1,148
110.39	....	110.39	636	....	636	....	....	....
43.12	120.32	163.44	....	2	2	646	1,187	1,833
24.33	....	24.33	....	....	....	286	....	286
33.86	....	33.86	....	....	....	921	....	921
554.29	18.21	572.50	....	2	2	17,929	602	18,531
125.02	....	125.02	....	....	....	4,329	26	4,355
76.99	....	76.99	....	....	....	2,870	....	2,870
58.81	....	58.81	....	....	....	1,965	....	1,965
164.28	....	164.28	539	....	539	....	....	....
83.33	94.88	178.21	....	4	4	1,352	1,378	2,730
....	115.09	115.09	....	....	....	....	3,062	3,062
0.35	....	0.35	....	....	....	15	....	15
1.45	....	1.45	....	....	....	61	....	61
725.48	....	725.48	1,880	....	1,880	....	....	....
182.04	8.15	190.19	....	....	....	2,600	117	2,717
32.86	16.58	49.44	....	....	....	1,141	583	1,724
68.19	....	68.19	....	....	....	1,839	....	1,839
61.08	46.23	107.31	2	....	2	3,454	613	4,067
28.14	....	28.14	....	....	....	746	....	746
10.74	....	10.74	1	....	1	291	....	291
7,470.01	†408.51	7,878.52	15,422	361	15,783	121,527	†7,358	128,885

APPENDIX II

LINES FOR THE USE OF

System	Total route miles			Miles of single-circuit line		
	Completed to Oct. 31, 1936	Completed Oct. 31, 1936 to Oct. 31, 1937	Total to Oct. 31, 1937	Completed to Oct. 31, 1936	Completed Oct. 31, 1936 to Oct. 31, 1937	Total to Oct. 31, 1937
Niagara system and N.A.	673.35	....	673.35	247.79	*22.56	225.23
Dominion Power division	....	....	....	....	....	....
Georgian Bay system	....	....	....	....	....	....
Eastern Ontario system	8.35	6.11	14.46	5.50	6.11	11.61
Thunder Bay system	....	0.33	0.33	....	0.33	0.33
Northern Ontario properties	281.85	....	281.85	273.10	....	273.10
Totals	963.55	6.44	‡969.99	526.39	*16.12	510.27

Included in totals are 1.30 miles of 8-circuit line and 0.18 miles of 7-circuit line (E.O. system),
‡This total is exclusive of telephone cable.
*Removals.

TELEPHONE CIRCUITS CARRIED

System	Total route miles			Miles of single-circuit line		
	Completed to Oct. 31, 1936	Completed Oct. 31, 1936 to Oct. 31, 1937	Total to Oct. 31, 1937	Completed to Oct. 31, 1936	Completed Oct. 31, 1936 to Oct. 31, 1937	Total to Oct. 31, 1937
Niagara system and N.A.	1,101.41	*7.66	1,093.75	1,013.09	*7.66	1,005.43
Dominion Power division	20.22	....	20.22	15.03	....	15.03
Georgian Bay system	708.58	8.40	716.98	645.19	8.40	653.59
Eastern Ontario system	850.27	96.36	946.63	776.21	67.72	843.93
Thunder Bay system	97.86	110.93	208.79	92.16	110.93	203.09
Northern Ontario properties	335.00	70.79	405.79	334.47	70.54	405.01
Totals	3,113.34	†278.82	‡3,392.16	2,876.15	†249.93	3,126.08

Included in totals are 2.37 miles of 5-circuit line in E.O. System.
*Removals. †Net increase. ‡This total exclusive of telephone cable.
Derived (carrier and phantom) circuits to Oct. 31, 1936: Niagara system—298.69 miles,
Derived (carrier and phantom) circuits to Oct. 31, 1937: Niagara system—298.69 miles,
These circuits are additional to the above tabulation but are made available by utilizing listed

(Concluded)

TELEPHONE CIRCUITS ONLY

Miles of double-circuit line			Miles of three-circuit line			Miles of four-circuit line			Miles of telephone cable		
Completed to Oct. 31, 1936	Completed Oct. 31, 1936 to Oct. 31, 1937	Total to Oct. 31, 1937	Completed to Oct. 31, 1936	Completed Oct. 31, 1936 to Oct. 31, 1937	Total to Oct. 31, 1937	Completed to Oct. 31, 1936	Completed Oct. 31, 1936 to Oct. 31, 1937	Total to Oct. 31, 1937	Completed to Oct. 31, 1936	Completed Oct. 31, 1936 to Oct. 31, 1937	Total to Oct. 31, 1937
328.52	22.56	351.08	9.08	....	9.08	75.10	....	75.10	25.17	0.26	25.43
......	....	......	......	....	....	......	....	....	......	....	... ...
......	....	......	......	....	....	......	....	....	......	....	....
1.37	....	1.37	......	....	....	......	....	....	......	....	....
......	....	......	......	....	....	......	....	....	......	....	....
8.75	....	8.75	......	....	....	......	....	....	1.25	....	1.25
338.64	22.56	361.20	9.08	....	9.08	75.10	....	75.10	26.42	0.26	26.68

and 5.80 miles of 6-circuit line and 7.06 miles of 5-circuit line in Niagara system.

JOINTLY WITH POWER CIRCUITS

Miles of double-circuit line			Miles of three-circuit line			Miles of four-circuit line			Miles of telephone cable		
Completed to Oct. 31, 1936	Completed Oct. 31, 1936 to Oct. 31, 1937	Total to Oct. 31, 1937	Completed to Oct. 31, 1936	Completed Oct. 31, 1936 to Oct. 31, 1937	Total to Oct. 31, 1937	Completed to Oct. 31, 1936	Completed Oct. 31, 1936 to Oct. 31, 1937	Total to Oct. 31, 1937	Completed to Oct. 31, 1936	Completed Oct. 31, 1936 to Oct. 31, 1937	Total to Oct. 31, 1937
79.57	0.33	79.90	0.79	*0.33	0.46	7.96	....	7.96	3.46	....	3.46
5.19	....	5.19	......	....	....	......	....	....	......	....	....
55.84	....	55.84	7.55	....	7.55	......	....	....	......	....	....
74.06	25.02	99.08	......	....	....	......	1.25	1.25	......	....	....
5.70	....	5.70	......	....	....	......	....	....	......	....	....
0.53	0.25	0.78	......	....	....	......	....	....	......	....	....
220.89	25.60	246.49	8.34	*0.33	8.01	7.96	1.25	9.21	3.46	....	3.46

Eastern Ontario system—12.70 miles.
Eastern Ontario system—12.70 miles.
physical circuits.

APPENDIX III

CONSTRUCTION IN RURAL POWER DISTRICTS

Summary of Data Respecting Distribution Lines Constructed in Rural Power Districts by The Hydro-Electric Power Commission of Ontario

Below is shown in tabular form the work carried on under the supervision of the Distribution section of the Electrical Engineering department in Rural Power Districts during the year ended October 31, 1937.

SUMMARY OF CONSTRUCTION IN RURAL POWER DISTRICTS

	At October 31, 1936		At October 31, 1937					
	Miles of primary line constructed	Number of consumers receiving service	Miles of primary line			Number of Consumers		
			Constructed	Under construction or authorized	Total	Receiving service	Authorized	Total
Niagara System......	7,470.37	51,110	8,512.47	241.18	8,753.65	57,629	1,042	58,671
Georgian Bay System								
Severn district......	374.89	3,441	507.46	24.29	531.75	4,244	92	4,336
Eugenia district.....	255.25	1,344	404.22	60.32	464.54	1,761	426	2,187
Wasdells district....	251.27	1,792	283.93	2.52	286.45	2,019	23	2,042
Muskoka district....	149.89	897	222.58	11.52	234.10	1,201	54	1,255
Bala district........	46.06	293	56.30	0	56.30	360	0	360
Minden R.P.D......	2.61	39	20.76	0	20.76	111	0	111
Eastern Ontario System								
Central district......	1,186.95	8,235	1,556.50	82.49	1,638.99	9,963	268	10,231
St. Lawrence district.	431.59	2,726	540.70	44.52	585.22	3,214	186	3,400
Rideau district......	96.43	581	114.97	1.08	116.05	685	3	688
Madawaska district..	34.79	268	42.57	0	42.57	312	0	312
Ottawa district......	197.81	1,278	219.85	1.96	221.81	1,417	9	1,426
Thunder Bay System.	82.73	346	95.68	1.42	97.10	422	17	439
Manitoulin R.P.D....	37.25	189	47.15	0	47.15	232	0	232
Northern Ontario Properties								
Nipissing district....	19.37	471	20.55	0	20.55	504	0	504
Total........	10,637.17	73,010	12,645.69	471.30	13,116.99	84,074	2,120	86,194

DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS

Rural power district	Property number	At October 31, 1936		At October 31, 1937	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
NIAGARA SYSTEM					
Acton	N5D1	11.07	32	12.24	37
Ailsa Craig	N4D7	5.59	17	6.41	18
Alvinston	N18D9	4.80	9	14.41	18
Amherstburg	N15D3	73.55	648	88.55	744
Aylmer	N11D2	133.93	751	172.67	942
Ayr	N12D4	27.26	104	29.58	112
Baden	N7D1	115.50	535	124.67	588
Beamsville	N44D3	179.72	1,660	194.20	1,775
Belle River	N15D2	45.95	403	51.58	480
Blenheim	N14D3	67.86	361	84.19	440
Bond Lake	N3D3	182.76	1,846	190.68	1,969
Bothwell	N14D10	41.72	165	63.91	234
Brampton	N13D2	60.54	191	71.66	247
Brant	N12D1	122.91	676	164.61	850
Brigden	N18D8	37.24	123	41.66	142
Burford	N12D2	55.57	299	70.60	368
Caledonia	N2D5	112.72	607	139.53	737
Chatham	N14D1	166.19	898	194.98	1,090
Chippawa	N1D7	29.86	202	31.96	224
Clinton	N8D11	70.61	404	79.57	445
Delaware	N4D3	145.37	718	149.27	761
Dorchester	N4D1	119.76	655	129.74	706
Dresden	N14D12	28.89	86	52.75	181
Drumbo	N12D5	62.84	297	77.85	353
Dundas	N2D1	136.22	859	148.90	932
Dunnville	N1D9	20.85	129	28.05	173
Dutton	N11D3	50.82	199	60.39	231
Elmira	N7D3	26.05	99	26.05	110
Elora	N5D4	53.41	284	60.69	321
Essex	N15D7	95.58	496	112.94	597
Exeter	N4D6	70.20	712	85.15	768
Forest	N18D6	51.95	205	61.33	263
Galt	N6D2	41.08	353	47.14	402
Georgetown	N5D2	60.67	296	68.28	332
Goderich	N8D2	51.27	209	55.35	234
Grantham	N44D1	63.65	889	64.62	914
Guelph	N5D3	106.44	643	121.16	716
Haldimand	N2D8	88.40	395	112.65	500
Harriston	N8D5	24.05	64	24.71	73
Harrow	N15D4	71.48	694	77.19	784
Ingersoll	N10D3	187.02	649	202.98	723
Jordan	N44D2	44.22	428	46.29	449
Keswick	N3D5	64.43	1,202	71.90	1,276
Kingsville	N15D5	143.05	1,531	162.53	1,743
Listowel	N8D8	82.35	368	84.45	387

DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS—Continued

NIAGARA SYSTEM—Concluded

Rural power district	Property number	At October 31, 1936		At October 31, 1937	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
London	N4D2	206.50	2,386	214.30	2,576
Lucan	N4D5	43.33	149	66.43	211
Lynden	N2D2	66.60	266	70.99	307
Markham	N3D1	136.88	1,055	150.15	1,194
Merlin	N14D15	98.25	368	114.52	444
Milton	N13D3	77.48	372	83.04	415
Milverton	N8D9	49.69	202	55.61	225
Mitchell	N8D7	70.11	365	81.79	421
Newmarket	N3D4	80.23	461	82.82	513
Niagara	N1D1	51.77	336	54.14	372
Norwich	N10D1	133.64	605	146.98	687
Oil Springs	N18D3	21.14	115	25.37	121
Palmerston	N8D6	39.14	121	49.22	158
Petrolia	N18D5	18.31	80	23.09	107
Preston	N6D1	156.39	1,189	166.19	1,306
Ridgetown	N14D2	108.66	739	116.46	802
St. Jacobs	N7D2	72.09	409	77.17	439
St. Marys	N9D1	127.44	479	146.28	556
St. Thomas	N11D1	174.72	1,218	201.64	1,353
Saltfleet	N17D1	99.05	1,747	100.58	1,877
Sandwich	N15D1	132.04	2,068	136.84	2,234
Sarnia	N18D4	89.80	1,375	108.13	1,575
Scarboro	N3D2	95.93	1,011	102.95	1,153
Seaforth	N8D10	17.56	156	17.76	156
Simcoe	N12D6	83.13	462	99.80	586
Stamford	N44D4	8.77	303	9.44	305
Stratford	N8D4	37.77	238	39.07	245
Strathroy	N4D4	84.80	256	111.09	331
Streetsville	N13D1	111.15	509	118.54	557
Tavistock	N8D1	97.52	356	112.93	423
Thamesville	N14D11	73.43	294	89.86	357
Tilbury	N14D14	95.43	359	114.34	472
Tillsonburg	N10D4	138.53	703	154.57	802
Wallaceburg	N14D13	106.24	646	139.38	794
Walsingham	N12D7	154.47	759	205.30	1,034
Walton	N8D3	47.78	292	60.82	343
Waterdown	N2D3	72.48	1,014	79.75	1,066
Waterford	N12D3	82.38	351	98.33	433
Watford	N18D7	17.55	58	26.27	61
Welland	N1D5	287.70	2,917	296.69	3,103
Woodbridge	N16D1	230.42	1,193	243.15	1,306
Woodstock	N10D2	138.72	737	160.67	820

DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS—Continued

Rural power district	Property number	At October 31, 1936		At October 31, 1937	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
GEORGIAN BAY SYSTEM					
Severn District					
Alliston	S32D1	24.72	157	38.19	206
Barrie	S4D1	77.06	610	85.08	693
Beeton	S33D1	1.80	5	1.80	5
Bradford	S37D1	27.17	91	36.65	117
Buckskin	S24D1	1.75	22	1.75	23
Cookstown	S35D1	0.90	3	0.90	3
Creemore	S10D2	30.12	128	53.81	198
Elmvale	S7D1	26.25	160	44.18	218
Hawkestone	S9D1	36.55	241	54.48	303
Innisfil	S31D1	41.24	728	41.64	809
Medonte	S18D1	23.30	112	37.32	168
Midland	S1D1	48.75	275	63.34	415
Nottawasaga	S5D1	8.22	100	8.22	108
Thornton	S36D1	8.00	31	8.14	34
Tottenham	S34D1	0.30	1	6.90	14
Wasaga Beach	S10D1	18.76	777	25.06	930
Eugenia District					
Arthur	E13D2	2.40	10	2.40	12
Bruce	E19D1	62.65	311	77.44	367
Chatsworth	E3D1	0.00	22	0	22
Dundalk	E5D1	4.05	21	6.99	28
Flesherton	E1D1	2.60	27	13.65	40
Holstein	E7D1	0.50	8	0.50	9
Lucknow	E24D1	0.11	2	5.57	3
Markdale	E1D2	20.85	87	20.85	90
Meaford	E14D1	6.39	34	14.18	52
Neustadt	E8D1	0.76	6	0.76	7
Orangeville	E12D1	23.73	86	51.92	173
Owen Sound	E2D1	20.54	112	39.32	171
Ripley	E24D2	4.92	15	31.90	41
Sauble	E46D1	13.75	91	22.85	137
Shelburne	E10D1	18.44	54	19.37	65
Tara	E15D1	36.75	160	48.96	205
Wroxeter	E22D1	36.81	298	47.56	339
Wasdells District					
Beaverton	W2D1	32.41	398	40.06	434
Cannington	W3D1	10.09	53	14.10	66
Kirkfield	W6D1	0.00	0	9.89	50
Mariposa	W9D1	50.50	336	55.06	357
Port Perry	W12D1	53.06	426	55.39	471
Sparrow Lake	W1D1	39.49	360	43.63	412
Uxbridge	W11D1	65.72	219	65.80	229
Muskoka District					
Beaumaris	M7D1	45.25	353	64.49	437
Baysville	M10D1	32.55	182	36.81	213
Gravenhurst	M4D1	5.64	29	11.59	48
Huntsville	M2D1	39.05	168	68.05	287
South Falls	M1D1	0.00	0	0.10	4
Utterson	M8D1	27.40	165	41.54	212

DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS—Continued

Rural power district	Property number	At October 31, 1936		At October 31, 1937	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
GEORGIAN BAY SYSTEM—Concluded					
Bala District					
Bala	GB13D1	46.06	293	56.30	360
Minden R.P.D.					
Minden	G37D1	2.61	39	20.76	111
EASTERN ONTARIO SYSTEM					
Central District					
Belleville	C38D1	93.33	735	126.84	869
Bowmanville	C23D1	35.17	164	47.76	216
Brighton	C6D1	12.63	71	15.19	81
Campbellford	C11D1	22.69	86	31.05	119
Cobourg	C13D1	116.68	560	138.45	667
Colborne	C7D1	40.38	230	54.57	290
Fenelon Falls	C30D1	61.46	385	78.62	494
Kingston	C44D1	156.18	965	210.03	1,181
Lakefield	C18D1	29.49	126	36.07	158
Marmora	C47D1	3.25	17	2.85	25
Millbrook	C25D1	22.26	140	28.24	159
Napanee	C43D1	120.89	613	188.83	873
Newcastle	C22D1	30.45	137	31.45	143
Norwood	C31D1	13.46	69	23.11	144
Oshawa	C24D1	142.84	1,798	168.34	1,975
Omemee	C26D1	5.22	10	5.55	14
Peterborough	C20D1	71.24	1,214	85.62	1,312
Stirling	C35D1	27.81	117	32.16	139
Sulphide	C34D1	0.00	0	15.31	55
Trenton	C3D1	62.46	279	78.00	339
Warkworth	C49D1	0.77	10	11.15	45
Wellington	C45D1	118.29	509	147.31	665
St. Lawrence District					
Alexandria	L15D1	20.68	116	34.39	171
Brockville	L3D1	99.36	718	108.45	794
Chesterville	L5D1	58.89	427	95.57	580
Iroquois	L9D1	90.96	472	104.45	549
Martintown	L13D1	25.82	166	35.44	182
Maxville	L14D2	66.22	433	72.82	474
Prescott	L2D1	37.16	215	53.26	269
Williamsburg	L7D1	32.50	179	36.32	195
Rideau District					
Carleton Place	H5D1	0.50	1	1.16	4
Kemptville	H9D1	5.43	51	5.43	54
Perth	H2D1	17.43	87	21.11	104
Smiths Falls	H3D1	72.98	442	87.27	523
Madawaska District					
Arnprior	QM10D1	5.72	68	9.32	80
Renfrew	QM16D1	29.07	200	33.25	232
Ottawa District					
Nepean	T1D1	197.81	1,278	219.85	1,417

DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS—Concluded

Rural power district	Property number	At October 31, 1936		At October 31, 1937	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
THUNDER BAY SYSTEM					
Fort William	P10D1	52.40	197	64.93	245
Port Arthur	P2D1	30.33	149	30.75	177
MANITOULIN RURAL POWER DISTRICT					
Manitoulin	MR1D1	37.25	189	47.15	232
NORTHERN ONTARIO PROPERTIES					
NIPISSING DISTRICT					
North Bay	Z4D1	15.27	452	16.45	485
Powassan	Z8D1	4.10	19	4.10	19

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Cost of Power........................256
Credit or Charge Account............266
Sinking Fund........................270
Municipal Accounts........A, 352; B, 400
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Cost of Power........................240
Rural Operating.....................246
Credit or Charge Account............250
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Beachville—Load in Horsepower........ 30
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Municipal Accounts........A, 315; B, 363
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Miles of Line, Consumers and Rates...110
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Miles of Line, Consumers and Rates...113
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Beeton—Load in Horsepower........... 40
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Municipal Accounts........A, 316; B, 364
Statements.........C, 411; D, 438; E, 450

Belle River Rural Power District—Load in Horsepower.................... 33
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Cost of Power........................206
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Sinking Fund........................270
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Municipal Accounts........A, 316; B, 364
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Sinking Fund..........270
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Sinking Fund..........234
Municipal Accounts........A, 316; B, 364
Statements.........C, 411; D, 438; E, 450

Bolton—Load in Horsepower.......... 30
Cost of Power..........198
Credit or Charge Account..........222
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Municipal Accounts........A, 316; B, 364
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Credit or Charge Account..........230
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Bothwell—Load in Horsepower.......... 30
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Credit or Charge Account..........222
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Municipal Accounts........A, 316; B, 364
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Bothwell Rural Power District—Load in Horsepower.......... 34
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Rural Line Construction..........146
Cost of Power..........208
Rural Operating..........218
Credit or Charge Account..........230
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Bowmanville—Load in Horsepower...... 50
Cost of Power..........256
Credit or Charge Account..........266
Sinking Fund..........270
Municipal Accounts........A, 353; B, 401
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Bowmanville Rural Power District—Load in Horsepower.......... 52
Miles of Line, Consumers and Rates...114
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Bradford—Load in Horsepower.......... 40
Cost of Power..........238
Credit or Charge Account..........248
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Municipal Accounts........A, 343; B, 391
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Bradford Rural Power District—Load in Horsepower.......... 41
Miles of Line, Consumers and Rates...113
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Credit or Charge Account..........250
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Cost of Power..........198
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Sinking Fund..........234
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Credit or Charge Account..........222
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Municipal Accounts........A, 317; B, 365
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Brigden Rural Power District—Load in Horsepower.......... 34
  Miles of Line, Consumers and Rates...110
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Brighton—Load in Horsepower.......... 50
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  Credit or Charge Account..........266
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Brighton Rural Power District—Load in Horsepower.......... 52
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  Details of Construction in..........488

Brockville—Load in Horsepower.......... 50
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  Credit or Charge Account..........266
  Sinking Fund..........270
  Municipal Accounts........A, 353; B, 401
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Brockville Rural Power District—Load in Horsepower.......... 52
  Miles of Line, Consumers and Rates...114
  Rural Line Construction..........148
  Cost of Power..........258
  Rural Operating..........264
  Credit or Charge Account..........268
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Bruce Rural Power District—Load in Horsepower.......... 41
  Miles of Line, Consumers and Rates...113
  Rural Line Construction..........148
  Cost of Power..........240
  Rural Operating..........246
  Credit or Charge Account..........250
  Sinking Fund..........254
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  Cost of Power..........198
  Credit or Charge Account..........222
  Sinking Fund..........234
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  Miles of Line, Consumers and Rates...113
  Cost of Power..........242
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  Credit or Charge Account..........250
  Sinking Fund..........254
  Details of Construction in..........487

Burford—Load in Horsepower.......... 30
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  Credit or Charge Account..........222
  Sinking Fund..........234
  Municipal Accounts........A, 317; B, 365
  Statements.........C, 412; D, 438; E, 450

Burford Rural Power District—Load in Horsepower.......... 34
  Miles of Line, Consumers and Rates...110
  Cost of Power..........208
  Rural Operating..........218
  Credit or Charge Account..........230
  Sinking Fund..........236
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  Municipal Accounts........A, 318; B, 366
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  Miles of Line, Consumers and Rates...110
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Chatsworth Rural Power District—Load in Horsepower................... 41
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  Credit or Charge Account............248
  Sinking Fund........................254
  Municipal Accounts........A, 344; B, 392
  Statements.........C, 413; D, 440; E, 452

Chesterville—Load in Horsepower....... 51
  Cost of Power.......................256
  Credit or Charge Account............266
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Chesterville Rural Power District—Load in Horsepower................... 52
  Miles of Line, Consumers and Rates...114
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  Credit or Charge Account............222
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Chippawa Rural Power District—Load in Horsepower..................... 34
  Miles of Line, Consumers and Rates...110
  Cost of Power.......................208
  Rural Operating.....................218
  Credit or Charge Account............230
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Clifford—Load in Horsepower.......... 30
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  Credit or Charge Account............222
  Sinking Fund........................234
  Municipal Accounts........A, 319; B, 367
  Statements.........C, 413; D, 440; E, 452

Clinton—Load in Horsepower.......... 30
  Municipal Work..................... 70
  Cost of Power.......................198
  Credit or Charge Account............222
  Sinking Fund........................234
  Municipal Accounts........A, 319; B, 367
  Statements.........C, 413; D, 440; E, 452

Clinton Rural Power District—Load in Horsepower..................... 34
  Miles of Line, Consumers and Rates...110
  Cost of Power.......................208
  Rural Operating.....................218
  Credit or Charge Account............230
  Sinking Fund........................236
  Details of Construction in............485

Cobden—Load in Horsepower.......... 51
Cost of Power......................256
Credit or Charge Account............266
Sinking Fund......................270
Municipal Accounts........A, 353; B, 401
Statements.........C, 413; D, 440; E, 452

Cobourg—Load in Horsepower......... 51
Cost of Power......................256
Credit or Charge Account............266
Sinking Fund......................270
Municipal Accounts........A, 354; B, 402
Statements.........C, 413; D, 434; E, 452

Cobourg Rural Power District—Load in Horsepower..................... 52
Miles of Line, Consumers and Rates...114
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Municipal Accounts........A, 351; B, 399
Statements.........C, 428; D, 446; E, 462

Williamsburg—Load in Horsepower..... 51
Cost of Power........................258
Credit or Charge Account............268
Sinking Fund........................270
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Rural Operating......................264
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Sinking Fund........................271
Details of Construction in............488

Wilmot Township, Agreement Approved. 1

Winchester—Load in Horsepower....... 51
Cost of Power........................258
Credit or Charge Account............268
Sinking Fund........................270
Municipal Accounts........A, 360; B, 408
Statements.........C, 428; D, 446; E, 462

Windermere—Load in Horsepower...... 41
Cost of Power........................240
Credit or Charge Account............250
Sinking Fund........................254
Municipal Accounts........A, 351; B, 399
Statements.........C, 428; D, 446; E, 462

Windsor, Agreement Approved......... 1
Load in Horsepower................. 33
Municipal Work..................... 72
Cost of Power........................206
Credit or Charge Account............228
Sinking Fund........................235
Municipal Accounts........A, 341; B, 389
Statements.........C, 428; D, 434; E, 462

Wingham—Load in Horsepower........ 41
Municipal Work..................... 73
Cost of Power........................240
Credit or Charge Account............250
Sinking Fund........................254
Municipal Accounts........A, 351; B, 399
Statements.........C, 428; D, 436; E, 462

Woodbridge—Load in Horsepower...... 33
Cost of Power........................206
Credit or Charge Account............228
Sinking Fund........................235
Municipal Accounts........A, 341; B, 389
Statements.........C, 428; D, 446; E, 462

Woodbridge Rural Power District—Load in Horsepower.................... 35
Miles of Line, Consumers and Rates...113
Cost of Power........................216
Rural Operating......................220
Credit or Charge Account............232
Sinking Fund........................236
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Municipal Work..................... 72
Cost of Power........................206
Credit or Charge Account............228
Sinking Fund........................235
Municipal Accounts........A, 341; B, 389
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Woodstock Rural Power District—Load in Horsepower.................... 35
Miles of Line, Consumers and Rates...113
Rural Line Construction..............147
Cost of Power........................216
Rural Operating......................220
Credit or Charge Account............232
Sinking Fund........................236
Details of Construction in............486

Woodville—Load in Horsepower........ 41
Cost of Power........................240
Credit or Charge Account............250
Sinking Fund........................254
Municipal Accounts........A, 351; B, 399
Statements.........C, 428; D, 446; E, 462

Wroxeter Rural Power District—Load in Horsepower.................... 42
Miles of Line, Consumers and Rates...114
Rural Line Construction..............148
Cost of Power........................244
Rural Operating......................246
Credit or Charge Account............252
Sinking Fund........................255
Details of Construction in............487

Wyoming—Load in Horsepower........ 33
Cost of Power........................206
Credit or Charge Account............228
Sinking Fund........................235
Municipal Accounts........A, 342; B, 390
Statements.........C, 428; D, 446; E, 462

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York, East, Township (See East York Township)

York, North, Township (See North York Township)

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Zurich—Load in Horsepower........... 33
Municipal Work..................... 72
Cost of Power........................206
Credit or Charge Account............228
Sinking Fund........................235
Municipal Accounts........A, 342; B, 390
Statements.........C, 428; D, 446; E, 462

PROVINCIAL AUDITOR'S REPORT

1936-37

Prepared pursuant to the provisions of an Order-in-Council dated
the 28th day of October, 1909

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL PAPER No. 27

ONTARIO

TORONTO
Printed and Published by T. E. Bowman, Printer to the King's Most Excellent Majesty
1938

To THE HONOURABLE ALBERT MATTHEWS,

Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present to Your Honour the Report of the Provincial Auditor pursuant to the provisions of R. S. O. 1927, chap. 25, sec. 13, subsec. 2, of the Audit Act.

Respectfully submitted,

MITCHELL F. HEPBURN,
Treasurer of Ontario.

Treasury Department, Ontario,
Toronto, January 15th, 1938.

PROVINCIAL AUDITOR'S OFFICE.

Toronto, January 15th, 1938.

HON. MITCHELL F. HEPBURN,
Treasurer of Ontario.

SIR: I have the honour to submit for the information of the Legislative Assembly, pursuant to the provisions of an Order-in-Council dated 28th October, 1909, as provided by R.S.O. 1927, chap. 25, subsection 2 of section 31, and pursuant to the provisions of subsection 2 of section 13, and sections 27 and 28 of the Audit Act:

(A) Introduction and Miscellaneous Statements.
(B) Legal Opinions.
(C) Statement of Treasury Board Minutes.
(D) Statement of Special Warrants.

Respectfully submitted,

G. A. BROWN,
Provincial Auditor.

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A

INTRODUCTION AND MISCELLANEOUS STATEMENTS

Annual Report of the Provincial Auditor

INTRODUCTION

I have the honour to submit my report for the fiscal year ended March 31st. 1937. pursuant to the provisions of the Audit Act. R.S.O. 1927, chapter 25. section 13, sub-section 2, and sections 27 and 28.

SURPLUS ON ORDINARY ACCOUNT

The following statement shows a Surplus on Ordinary Account for the year of $9,313,938.54.

Net Ordinary Revenue	$80,488,439 95
Less: Net Ordinary Expenditure (before providing for Unemployment Direct Relief)	57,904,444 12
Surplus (before providing for Unemployment Direct Relief)	$22.583.995 83
Less: Unemployment Direct Relief and Administration thereof	13,270,057 29
SURPLUS	$ 9,313,938 54

AUDIT OF REVENUE

A continuation of the improvement in the manner in which the revenues are being accounted for by all departments, noted in my previous reports. was observed.

The Ordinary Revenue for the year 1936-37 amounting to $80.488,439.95, was made up as follows:

DOMINION GOVERNMENT—		
Annual Subsidy	$2.941,424 28	
Interest—Common School Fund	72.816 35	
		$ 3.014,240 63
REVENUE DERIVED FROM INDIVIDUALS AND CORPORATIONS RECEIVING THE BENEFIT OF PROVINCIAL SERVICES, SPECIAL PRIVILEGES OR THE USE OF NATURAL RESOURSES AND PROPERTIES, AND PROFITS FROM TRADING, ETC.:		
Taxation	$49.220.252 46	
Gasoline, Mines, Lands, Corporations, Income. Race Tracks (betting), Amusements, Stock Transfers, Succession Duties and Wine.		
Royalties, Duties and Dues	2,315.918 87	
Bonus and Timber, Sand and Gravel, Game and Fish.		
Licenses and Permits	12,332.526 85	
Motor Vehicles. Liquor Permits. Hunting and Fishing. Insurance. Loan and Trust Companies. Mines. Theatres, etc.		
Fees	2,318,240 05	
Local Registrars, Police Magistrates. Crown Attorneys. etc.: Mine Recording, Companies and Brokers' Registration. etc.: Land Transfers. Motor Vehicle Transfers, etc.		
Fines and Penalties	235.366 33	
Profits from Trading Activities	9,500,000 00	
Liquor Control Board—Profits. Fines. Sale of Confiscated Liquor, etc.		
Agriculture and Public Domain	635.225 59	
Repayments—Highways	172.899 46	
Miscellaneous	743.769 71	
ONTARIO GAZETTE, sale of Government Publications. and Casual Revenue.		
		77.474,199 32
		$80.488.439 95

GROSS PROVINCIAL DEBT

Statement Showing Decrease

For the Fiscal Year, April 1st, 1936, to March 31st, 1937

	1934 $ c.	1935 $ c.	1936 $ c.	1937 $ c.	Decrease, 1937 over 1936 $ c.
Funded Debt	594,038.788 49	587,191,342 46	594,112,954 50	567,973,130 86	26,139,823 64
Unfunded Debt	52,118,933 15	77,819,661 64	86,056,340 45	80,105,266 96	5,951,073 49
Income Liabilities	9,603,131 06	9,374,912 88	9,389,218 81	8,381,950 55	1,007,268 26
GROSS DEBT	655,760.852 70	674,385,916 98	689,558,513 76	656.460.348 37	33,098,165 39

DECREASE IN GROSS DEBT ACCOUNTED FOR THUS—		
SURPLUS ON ORDINARY ACCOUNT	$ 9,313,938 54	
RAILWAY AID CERTIFICATES—Written Off	99,367 48	
SINKING FUND EARNINGS AND INSTALMENTS	998.682 86	
ACCRUED INTEREST ON TREASURY BILLS—Provision	126,123 29	
DISCOUNT ON DEBENTURES, ETC.—Written Off	916,583 90	
ADVANCES TO HYDRO-ELECTRIC POWER COMMISSION—Decrease	21,162,206 84	
ADVANCES TO TEMISKAMING AND NORTHERN ONTARIO RAILWAY—Decrease	6.200.000 00	
AGRICULTURAL DEVELOPMENT FINANCE ACT—Investments—Decrease	1,696,412 37	
LOANS TO MUNICIPALITIES—Decrease	802,974 97	
CASH IN BANKS—Decrease	2,166,193 01	
DECREASE IN INCOME LIABILITIES	1,007.268 26	
		$44,489,751 52
Deduct:		
CAPITAL DISBURSEMENTS—		
Disbursements on Highways, Northern Development, Public Buildings and Works, etc., Unemployment Relief, Municipal and Public Works	$11,269,569 26	
Less—Capital Receipts	1,367,280 91	
	$ 9,902,288 35	
INCREASE IN CAPITAL ACCOUNTS RECEIVABLE	201,162 80	
INCREASE IN DEFERRED ASSETS	518,691 61	
DISCOUNT OR PREMIUM ON DEBENTURES ISSUED OR PURCHASED DURING YEAR	768,835 49	
INCREASE IN COMMON SCHOOL FUND	107 88	
INCREASE IN SPECIAL FUND INVESTMENTS	500 00	
		11,391,586 13
NET DECREASE		$33,098,165 39

HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Advances by the Province to March 31st, 1937

Advanced on Capital Account to March 31st, 1936		$207,002,750 36
Repayments—		
Repayments from Sinking Fund in accordance with Debt Retirement Plan (1926)—to March 31st, 1937	$21,831,698 71	
Repayment by the Commission of its share of Debenture Loans matured during the period from November 1st, 1934, to March 31st, 1937, which were originally issued for Hydro and other Provincial purposes	33,598,107 71	
		55,429,806 42
Net Advances to March 31st, 1937		$151,572,943 94

AGRICULTURAL DEVELOPMENT FINANCE ACT

R.S.O. 1927, Cap. 67

Statement Showing Deposits in Province of Ontario Savings Offices, and Agricultural Loans as at March 31st, 1937

Deposits in Savings Offices by Public at March 31st, 1937		$37,688,669 63
Agricultural Development Finance Act—Investments—		
Agricultural Development Board—Debentures	$62,288,000 00	
Less: Repayments to date	15,488,000 00	
	$46,800,000 00	
Accrued Interest on Debentures	6,036,127 40	
		52,836,127 40
Farm Loans Act—Farm Loan Association		153,991 90
" " " —Capital Stock in Association		2,445 00
		$52,992,564 30
Savings Offices—		
Cash on hand and in Banks	$ 982,478 92	
Accounts Receivable	2,799 16	
Fixtures (depreciated value)	63,408 67	
		1,048,686 75
		$54,041,251 05

SUMMARY

Debentures, Cash, Etc.	$48,005,123 65
Accrued Interest on Debentures	6,036,127 40
	$54,041,251 05

PUBLIC SERVICE SUPERANNUATION FUND

R.S.O. 1927, Cap. 16, Part III

As at March 31st, 1937

Balance at credit of Fund—April 1st, 1936				$4,781,095 73
Receipts and Payments for the year ended March 31st, 1937:				
CONTRIBUTIONS—				
Employees			$ 418,490 18	
Boards, Commissions, etc. (Sec. 39)		$ 69,595 22		
Less—Refunds (Sec. 36)		9,041 51		
			60,553 71	
Province (Sec. 39)		$ 348,894 96		
(Sec. 60)		19,164 62		
		$ 368,059 58		
Less—Refunds (Sec. 36)		78,268 82		
			289,790 76	
			$ 768,834 65	
EARNINGS—				
Interest—On balance at credit of Fund as at April 1st, 1936:				
$4,500,000.00 for 1 year at 4¾%		$ 213,750 00		
281,095.73 for 1 year at 5 %		14,054 79		
		$ 227,804 79		
On Contributions—				
Employees	$ 9,324 93			
Province	9,324 93			
		18,649 86		
		$ 246,454 65		
Less—Interest deducted on account of payments to beneficiaries, etc.		17,269 75		
			229,184 90	
Total Receipts for year ended March 31st, 1937			$ 998,019 55	
PAYMENTS—				
Allowances to Superannuates, Beneficiaries, etc.		$ 663,511 06		
Refunds and Interest		98,287 62		
			761,798 68	
				236,220 87
				$5,017,316 60

INVESTMENT OF FUND

Province of Ontario Debentures—4¾% due October 31st, 1953	$4,500,000 00
Funds uninvested—on deposit with the Treasurer of Ontario	517,316 60
	$5,017,316 60

Statement showing the remuneration paid to Officials in the Parliament Buildings who received pay from more than one source during the Fiscal Year 1936-37

Name	Page	Amount	Total
DEPARTMENT OF ATTORNEY GENERAL:		$ c.	$ c.
Humphries, I. A.	B 8	6,485 61	
“	B 30	925 03	
			7.410 64
DEPARTMENT OF EDUCATION:			
Amoss, H. E.	C 22	4,358 33	
“	C 20	320 00	
			4,678 33
Anglin, R. W.	C 35	4.555 36	
“	C 25	307 50	
			4.862 86
Beattie, L. S.	C 37	3,964 36	
“	C 20	320 00	
			4.284 36
Beecroft, W. A.	C 25	2,979 39	
“	C 25	26 00	
“	C 26	200 00	
			3.205 39
Beneteau, A. J.	C 22	4.949 33	
“	C 25	19 00	
“	C 26	400 00	
			5.368 33
Campbell, J. D.	C 22	4,161 39	
“	C 25	65 00	
“	C 26	200 00	
			4,426 39
Cowles, J. P.	C 25	4,555 36	
“	C 26	500 00	
			5,055 36
Davies, N.	C 37	3.767 33	
“	C 20	345 60	
“	C 25	45 00	
			4,157 93
DeLaporte, L. H.	C 22	2,534 43	
“	C 20	240 00	
			2.774 43
Fenwick, G. R.	C 22	2.979 39	
“	C 20	240 00	
“	C 25	57 00	
			3,276 39
Greer, V. K.	C 22	5,341 86	
“	C 25	65 00	
			5.406 86
Hamill, A. M.	C 37	3,570 39	
“	C 20	240 00	
“	C 25	15 00	
			3,825 39
Hoag, J. P.	C 22	2.564 72	
“	C 25	42 00	
“	C 26	400 00	
			3.006 72
Hooper, A. G.	C 35	4.555 36	
“	C 26	500 00	
			5,055 36
Husband, A. J.	C 35	4.555 36	
“	C 25	457 00	
“	C 26	500 00	
			5.512 36
Jennings, W. A.	C 35	4.555 36	
“	C 25	468 00	
			5.023 36

Statement showing the remuneration paid to Officials in the Parliament Buildings who received pay from more than one source during the Fiscal Year 1936-37—Continued

Name	Page		Amount	Total
			$ c.	$ c.
Karr, W. J.	C	26	4,949 33	
"	C	25	118 00	
"	C	26	900 00	5,967 33
Kerfoot, H. W.	C	26	4,358 33	
"	C	25	392 00	4.750 33
MacDougall, J. B.	C	22	4,161 39	
"	C	25	65 00	4,226 39
Moon, A. M.	C	37	3,767 33	
"	C	25	192 00	3.959 33
Rendall, S. D.	C	22	4,063 37	
"	C	25	162 00	4.225 37
Rutherford, F. S.	C	37	4.555 36	
"	C	25	517 50	5.072 86
Walton, G. A.	C	11	1,990 64	
"	C	11	71 40	2.062 04
DEPARTMENT OF HEALTH:				
Berry, A. E.	E	19	4.161 39	
"	C	20	60 00	4.221 39
Myers, C. R.	E	23	1,200 00	
"	C	20	48 00	1.248 00
Phair, J. T.	E	12	4,752 39	
"	C	20	320 00	5,072 39
Power, M.	E	22	2.534 43	
"	C	20	240 00	2.774 43
Vrooman, L. V.	E	14	1,495 32	
"	C	20	240 00	1.735 32
DEPARTMENT OF LEGISLATION:				
Corner, W.	J	3	941 33	
"	J	4	30 00	971 33
Dennis, A.	J	3	941 33	
"	J	4	30 00	971 33
Harvey, W. G. W.	J	4	1.693 43	
"	J	4	400 00	2.093 43
Pautler, A.	J	3	941 33	
"	J	4	30 00	971 33
DEPARTMENT OF MUNICIPAL AFFAIRS:				
Cummings, H. L.	M	3	4.555 36	
"	M	4	982 72	5.538 08
DEPARTMENT OF PRIME MINISTER:				
Petley, H.	O	7	1.792 53	
"	J	4	200 00	1,992 53
DEPARTMENT OF PROVINCIAL SECRETARY:				
Venables, A. E.	Q	6	1,594 33	
"	E	15	316 35	
"	J	4	56 77	1,967 45

STATEMENT SHOWING AMOUNT EXPENDED ON ROAD CONSTRUCTION IN ONTARIO FROM COMMENCEMENT OF GOOD ROADS SYSTEM, 1903; COLONIZATION ROADS, 1903; NORTHERN DEVELOPMENT ACT, 1912, AND PROVINCIAL HIGHWAYS ACT, 1917

Year	The Highway Improvement Act, Chap. 54, R.S.O. 1927						Colonization Roads	Roads in Northern Ontario	Year
	Provincial	County	Township and Indian Reserve	Object Lesson	Conn. Links	T. & H. Highway			
1903-20	5,956,000 00	6,510,800 00	....	159,490 68	2,900 00	....	$6,030,673 70	7,001,587 61	1903-20
1921	9,925,022 95	3,635,267 34	$326,668 81	5,000 00	16,622 10	....	506,180 80	1,409,126 19	1921
1922	12,050,000 00	5,110,217 49	701,349 61	....	167,615 08	$17,272 62	671,184 48	1,694,889 56	1922
1923	16,897,172 79	4,257,871 34	669,483 05	....	169,631 26	11,349 41	827,855 98	2,688,151 48	1923
1924	6,600,000 00	3,418,059 04	613,860 54	....	40,523 00	22,472 92	447,444 66	2,919,239 56	1924
1925	8,350,000 00	3,213,783 60	638,808 11	....	53,575 42	123,670 07	474,409 34	3,381,301 86	1925
1926	6,750,000 00	3,222,099 91	994,988 73	....	75,224 28	....	296,317 27	3,736,612 01	1926
1927	9,150,000 00	2,878,724 84	1,320,888 53	....	32,782 10	....	498,188 75	3,943,361 77	1927
1928	11,650,000 00	3,740,443 99	1,616,007 87	....	1,022 20	....	359,383 68	3,830,647 42	1928
1929	12,450,000 00	4,359,577 69	1,819,153 77	....	166,925 22	....	405,564 91	4,943,462 70	1929
1930	13,875,000 00	4,590,367 00	2,156,732 01	....	85,419 31	....	600,626 77	7,200,962 50	1930
1931	12,670,000 00	4,417,696 10	2,339,179 50	....	40,854 13	....	497,265 93	8,776,122 79	1931
1932	7,750,000 00	3,670,334 72	1,890,650 56	....	46,578 14	....	443,623 76	15,187,839 16	1932
1933	5,200,000 00	2,105,893 72	1,391,975 03	....	14,443 28	....	304,684 54	5,875,537 01	1933
1934	12,697,555 97	1,463,519 72	1,014,914 54	....	35,235 57	....	223,611 80	23,637,867 89	1934
1935	2,374,878 42	1,266,757 97	622,084 89	....	21,219 50	....	152,033 86	10,091,247 64	1935
1936	1 413,970 74	1,834,186 56	1,280,907 91	....	4,395 72	....	326,192 16	17,529,908 42	1936
1937	6,531,908 04	1,934,474 28	1,819,231 44	....	95,454 09	....	324,259 85	8,262,511 46	1937
	$165,321,508 91	$61,630,075 31	$21,216,884 90	$164,490 68	$1,070,420 40	$174,765 05	$13,389,502 24	$132,140,407 03	

SUMMARY OF EXPENDITURE

The Highway Improvement Act:	Capital	Ordinary
Provincial Highways....................	$136,568,148 78	$28,753,060 13
County Roads..........................	41,542,003 72	20,088,071 59
Township and Indian Reserve Roads.....	8,569,398 80	12,617,486 10
Object Lesson Roads..................	164,190 68	....
Connecting Links.....................	1,031,535 44	38,884 96
Toronto and Hamilton Highway Commission..........................	94,168 46	80,596 59
	$187,970,045 88	$61,608,099 37
Colonization Roads......................	8,032,066 86	5,357,435 38
Roads in Northern Ontario...............	106,693,464 01	25,416,943 02
	$302,695,576 75	$92,112,477 77

SUMMARY OF REPAYMENTS

Year	Repayments	Subsidy	Total
1918...............	$5,251 57	....	$5,251 57
1919...............	14,733 64	....	14,733 64
1920...............	78,261 82	....	78,261 82
1921...............	654,277 00	$1,315,633 67	1,969,910 67
1922...............	1,561,149 44	2,058,613 62	3,619,763 06
1923...............	988,454 00	705,048 24	1,693,502 24
1924...............	2,834,155 43	839,303 48	3,673,458 91
1925...............	5,067,807 75	865,414 90	5,933,222 65
1926...............	1,977,814 99	50,000 00	2,027,814 99
1927...............	1,572,671 18	53,269 37	1,625,940 55
1928...............	1,950,806 64	....	1,950,806 64
1929...............	2,172,153 18	....	2,172,153 18
1930...............	3,547,715 81	....	3,547,715 81
1931...............	4,308,316 80	....	4,308,316 80
1932...............	8,366,401 33	....	8,366,401 33
1933...............	2,755,754 87	....	2,755,754 87
1934...............	3,493,850 90	....	3,493,850 90
1935...............	660,818 26	....	660,818 26
1936...............	6 013,090 58	....	6 043 090 58
1937..............	5,270,680 81	....	5,270,680 81
	$53,324,166 00	$5,887,283 28	$59,211,419 28

RECAPITULATION

	Capital	Ordinary	Total
Expenditure....................................	$302,695,576 75	$92,412,477 77	$395,108,054 52
Repayments.....................................	47,869,987 01	11,341,462 27	59,211,449 28
Total Expenditure......................	$254,825,589 74	$81,071,015 50	$335,896,605 24

G. A. BROWN,
Provincial Auditor.

B

LEGAL OPINIONS

Re Old Age Pensions

OFFICE OF PROVINCIAL AUDITOR

Toronto, January 26th, 1937.

Memorandum for MR. C. R. MAGONE,
Solicitor, Attorney General's Dept.

I would very much appreciate a ruling from you on a point that has arisen in connection with the Old Age Pensions.

A person naturalized — say on January 1st, is he eligible at once for old age pension or does it not become effective for three months?

G. A. BROWN.
Provincial Auditor.

DEPARTMENT OF ATTORNEY GENERAL

G. A. BROWN, ESQ.,
Provincial Auditor.
Buildings.

Toronto 5, January 29th. 1937.

Dear Sir:

I have your memorandum of January 26th asking for an opinion with respect to the Old Age Pensions Act whether a person naturalized. say on January 1st, is eligible at once for old age pension of whether the naturalization does not become effective for the term of three months thereafter.

Section 8 (1) of the Old Age Pension Act of Canada. R. S. C. 1927, Chapter 156. provides:

> "Provision shall be made for the payment of a pension to every person, who, at the date of the proposed commencement of the pension:
> (*a*) is a British subject, etc."

The Naturalization Act, R. S. C. 1927. Chapter 138, Section 2 (d) provides:

> "'British Subject' means a person who is a natural born British Subject. or a person to whom a certificate of naturalization has been granted; or a person who has become a subject of His Majesty by reason of any annexation of territory."

Section 4 (4) of the same Act. provides:

> "A certificate of naturalization shall not take effect until the applicant has taken the Oath of Allegiance."

Section 5, provides:

> "A person to whom a certificate of naturalization is granted by the Minister shall, subject to the provisions of this Act be entitled to all political and other rights, powers and privileges, be subject to all obligation, duties and liability, to which a natural born British Subject is entitled or subject, and *as from the date of his naturalization* have to all intents and purposes, the status of an natural born British Subject."

Section 27, of the same Act, provides:

> "The Minister may thereupon in his absolute discretion issue a certificate of naturalization and shall send the same to the Clerk of the court to whom the application for naturalization was made."
>
> 2. "Upon the applicant taking and subscribing the Oath of Allegiance, which may be so taken and subscribed by any person duly authorized to administer judicial oaths by the law of the Province in which the applicant resides, the Clerk shall deliver the certificate to the applicant."

My opinion is. therefore. that if the applicant produces a certificate of naturalization, dated January 1st, that he is subject to the other requirements being fulfilled, entitled to old age pension. as from that date.

Yours faithfully,

C. R. MAGONE.
Solicitor. Attorney General's Dept.

Re Fees Under the Land Transfer Tax Act

OFFICE OF PROVINCIAL AUDITOR

Toronto. July 8th, 1936.

Memorandum for MR. I. A. HUMPHRIES, K.C.,
Deputy Attorney General.

Mr. Walters, Deputy Provincial Treasurer, has asked me to discuss with you a question which has arisen in regards to Registrars retaining the 2% Commission collected by them for registering deeds, etc., for transfers of property under the Land Transfer Tax Act, and I will endeavour to cite the case now before me as briefly as possible:

(*a*) An Order-in-Council was passed allowing W. H. Lovering, Registrar to retain for his own use out of the *Fees* of his Office the sum of $4,500.00 per annum.

(*b*) Section 2. of the Land Transfer Act, R.S.O. 1927, chap. 31, reads as follows:

> "Such tax shall be collected by the Registrar or Master of Titles as the case may be, before he registers such transfer, conveyance, deed or other instrument and any Registrar or Master of Titles *not paid by salary* shall be entitled to retain for his own use two per centum of the moneys collected by him under section 1 hereof."

Question:—Would you consider that under the terms of the Order-in-Council that Mr. Lovering is a salaried officer? (Copy of Order-in-Council attached).

May I also ask if the Order-in-Council attached hereto does not conflict with the provisions of the Registry Act, R.S.O. 1927, chap. 155, section 101, as amended by 19 Geo. V. chap. 43, sec. 12.

I am also attaching hereto correspondance in connection with the whole matter and I would appreciate a ruling from you at your earliest convenience.

G. A. BROWN.
Provincial Auditor.

DEPARTMENT OF ATTORNEY GENERAL

Toronto 5. July 9th. 1936.

G. A. BROWN. ESQ.,
Provincial Auditor,
Buildings.

Dear Sir:

Re Order-in-Council — Lovering, Registrar of Deeds — Hamilton

I have your memorandum of July 8th and I wish to take this matter up with Colonel Denison, the Inspector of Legal Offices, and examine his files before coming to a definite conclusion as to whether the Order-in-Council placing W. H. Lovering on salary, would deprive him of his right to retain for his own use the percentum of the monies collected by him under Section 1 of The Land Transfer Act.

I may say that the Order-in-Council does not conflict with the provisions of The Registry Act, as amended by 19 Geo. V., Cap. 43, Section 12, by reason of an amendment made in 1936, Cap. 56, Section 14 (2), which reads as follows:

> "Section 101 of The Registry Act, as reenacted by Section 12 of The Registry Act, 1929, is amended by adding thereto the following subsection:
>
> (3) Notwithstanding the provisions of this Section, the Lieutenant-Governor in Council may fix the remuneration to be paid to any Registrar."

As I expect to go away for holidays this week. and as the Inspector will not be back in the office until next week, I have asked Mr. Common, who will be Acting Deputy Attorney General, to discuss this matter with the Inspector and to give you the advice asked for in your memorandum.

Yours very truly,

I. A. Humphries.
Deputy Attorney General.

Department of Attorney General

Toronto 5. July 30th, 1936.

G. A. Brown. Esq.,
Provincial Auditor.
Buildings.

Dear Sir:

Referring to your letter of July 8th. and Mr. Humphries letter to you of July 9th, in connection with W. H. Lovering, the Registrar of Deeds at Hamilton, it is my considered opinion that Mr. Lovering is not paid by salary. but that he is paid by fees, and his fees are limited to the sum of $4,500.00 per annum.

The result is, therefore, that Mr. Lovering is entitled to be paid the two percent. on monies received under The Land Transfer Tax Act as a fee of his office and must enter it in his books as such.

The said two percent. which is paid to him under The Land Transfer Act is not a fee which he receives apart from his office, and he is not therefore entitled to retain the said two percent. in addition to the amount of $4,500.00 per annum, fixed in the Order-in-Council of the 10th of January, 1935.

I return herewith the correspondence which you enclosed in your letter of July 8th.

Yours faithfully,

C. R. Magone,
Solicitor, Attorney General's Dept.

Re Payment to Patterson Farmer for Services as Member of the Minimum Wage Board

Office of Provincial Auditor

Toronto. April 24th. 1936.

Mr. I. A. Humphries. K. C.
Deputy Attorney General.

Dear Mr. Humphries:

An Order-in-Council was passed on the 28th of January. 1935. appointing Mr. Patterson Farmer of the City of Toronto as a member of the Minimum Wage Board without salary.

I am informed that a recommendation has been sent forward to Council providing salary for Mr. Farmer from April 1st. 1935.

In view of the fact that we are now in a new fiscal year. may I ask if you would be good enough to furnish me with a legal opinion as to the validity of an Order-in-

Council being made retroactive to provide for a salary in a former fiscal year without any provision for the said salary having been made in the current year's estimates.

Yours very truly,

G. A. BROWN,
Provincial Auditor.

DEPARTMENT OF ATTORNEY GENERAL

Toronto 5, May 11th, 1936.

G. A. BROWN, ESQ.,
Provincial Auditor,
Buildings.

Dear Mr. Brown:

Replying to your letter of April 24th, regarding the Order-in-Council passed on January 28th, 1935, which appointed Mr. Patterson Farmer a member of the Minimum Wage Board without salary, and a further Order-in-Council providing a salary for Mr. Farmer from April 1st, 1935 — the point at issue is as to whether the second Order-in-Council, providing the salary from April 1st, 1935, is in order.

My opinion is that it is not properly in order, and that the provisions of Section 7 of The Minimum Wage Act and amendments, prior to the 1936 amendment, expressly provide that the members of the Board shall serve without remuneration and the only allowance that can be given by the Lieutenant-Governor in Council is a per diem allowance, and also something for reasonable and necessary travelling and living expenses.

The 1936 amendment, however, repeals Section 7 and the new Section is wide in its interpretation. By this Section of the 1936 Act, the members of the Board shall be paid such compensation, or remuneration, for their services as may be determined by the Lieutenant-Governor in Council, and every member of the Board shall be entitled to his reasonable and necessary travelling and living expenses as certified by the Chairman of the Board.

It will be seen from this that the power given is widened, and there is nothing to prevent the Lieutenant-Governor in Council, under this Section, from passing an Order providing for remuneration for services.

I might also mention the provisions of Section 13 (b) of The Interpretation Act, which deal with the effect of the repeal of an Act, and states that a repeal shall not affect the previous operation of any Act, enactment, regulation or thing so repealed or revoked.

In view of this, therefore, the amendment in 1936 does not affect the provisions of Section 7, which expressly states that the members of the Board shall serve without remuneration.

What could be done, if it is thought advisable to pay Mr. Farmer for his services, would be to have the recommendation drawn in a different manner, not referring whatever to anything done in the year 1935, but simply a blanket order stating that Mr. Farmer be paid so much money for his services. I think this would be within the law and within the provisions of Section 7 of the 1936 amendment.

Yours very truly,

I. A. HUMPHRIES,
Deputy Attorney General.

C

TREASURY BOARD MINUTES

C

TREASURY BOARD MINUTES

STATEMENT OF TREASURY BOARD MINUTES ISSUED FOR EXPENDITURES IN EXCESS OF APPROPRIATIONS DURING THE FISCAL YEAR ENDED MARCH 31st, 1937

	Warrant	Expended
Department of Attorney General		
Supreme Court of Ontario—		
Registrar's Office—Maintenance	$ 981 60	$ 973 96
Department of Highways		
Main Office—		
Residency salaries	9,825 00	9,690 21
Department of Lands and Forests		
Lands Branch—		
Annuities and bonuses to Indians	552 00	544 00
Forests Branch—		
Forest Ranging, operating expenses	775,000 00	260,861 55
" " operating equipment	40,000 00	39,993 84
Reforestation, operating equipment, etc	16,000 00	5,387 29
Department of Legislation		
Office of the Speaker—		
Salaries, permanent	550 00	490 60
Secretary, Clerks of Committees, etc	2.000 00	1,966 06
Indemnities to members and mileage	5.975 40	5,901 20
Lieutenant-Governor's Office		
Salaries	1,097 23	1,059 73
Allowance for contingencies	3.600 00	3,400 00
Department of Prime Minister		
Main Office, maintenance	200 00	165 60
Department of Provincial Secretary		
Reformatories and Prisons Branch—		
Main Office, legal costs and expenses, etc	5.877 76	5,877 76
Ontario Reformatories—		
Guelph, maintenance	12.000 00	11,990 92
" repairs to buildings, etc	17.000 00	14,726 31
Mimico, repairs to buildings, etc	1.500 00	1.256 17
Industrial Farm, Burwash—		
Salaries	9.000 00	8,855 26
Maintenance	42.000 00	33,499 08
Department of Provincial Treasurer		
Controller of Revenue Branch, salaries	8.000 00	7,745 96
Post Office—		
Salaries	100 00	95 23
Maintenance	7.900 00	5,626 42
Guaranteed Debentures (School Boards)	5,000 00	4.960 38
Department of Public Welfare		
Girls Training School, Galt—		
Salaries	3.500 00	2,076 34
Operating expenses	12.500 00	12,083 52
Total Treasury Board Minutes	$ 980.158 99	$ 439.227 39

D

SPECIAL WARRANTS

D
SPECIAL WARRANTS

STATEMENT OF SPECIAL WARRANTS ISSUED DURING THE FISCAL YEAR ENDED MARCH 31st, 1937

Date of Warrant	SERVICE		Warrants	Expended 1936-37	Unexpended
	Department of Attorney General				
June 3rd, 1936	To supplement income of E. C. Drury, in the combined offices of Sheriff, Local Registrar of the Supreme Court and Clerk of the County Court of the County of Simcoe		$2.204 24	$2,204 24	
September 4th, 1936	To pay John McLean the sum of $250.00, lodged with Albert M. Judd, former Crown Attorney at London, Ont., as cash bail and retained by the said A. M. Judd		250 00	250 00	
October 22nd, 1936	Remuneration to Charles Walker for his services as Assistant Law Clerk		600 00	562 50	$37 50
	Remuneration to Donald Ross for his services as Assistant Law Clerk—				
January 16th, 1937	Warrant	$200 00			
March 31st, 1937	"	75 00	275 00	275 00	
	Department of Education				
June 3rd, 1936	Special grant to High School Board, Sturgeon Falls, to assist towards the maintenance of the school		5,000 00	5,000 00	
October 22nd, 1936	Special grant to the Board of Education, Kemptville, to assist in the building of a composite High and Public School		5,000 00	5,000 00	
December 21st, 1936	Special grant to the Board of Trustees of the Royal Ontario Museum to assist in providing for an extension to the museum and in equipping and furnishing the same		17,500 00	17,500 00	
	Department of Health				
April 28th, 1936	To reimburse Dr. R. E. Hartry of Fort Frances for hospital care furnished Lois Kilbride		50 00	50 00	
May 20th, 1936	To reimburse the Hospital for Sick Children, Toronto, for treatments to patients in the out-patients' department during the hospital year ended September 30th, 1935		8,681 70	8,681 70	

July 24th, 1936	Special grant to the Canadian Red Cross Society, Toronto, for the year 1936		20,000 00	20,000 00	
October 22nd, 1936	Grant to the Michipicoten, Gondreau Mining District Hospital Campaign in connection with the erection of a hospital at Hawk Junction, Ontario		1,000 00	1,000 00	
	Department of Labour				
June 22nd, 1936	Grant to Warriors' Day Council for their Labour Day Parade		250 00	250 00	
July 7th, 1936	Special grant to National Labour Day Committee, Toronto		100 00	100 00	
July 7th, 1936	Grant to Labour Day Celebration Committee, Toronto, for the purpose of providing meals re Labour Day Parade to the Exhibition Grounds		300 00	300 00	
October 22nd, 1936	Payment to Patterson Farmer for services as member of Minimum Wage Board from May 1st, 1935, to March 31st, 1936		3,208 34	3,208 34	
	Department of Lands and Forests				
	To cover cost of surveying the diversion of the waters of Long Lake in a southerly direction—				
October 8th, 1936	Warrant	$5,000 00			
January 4th, 1937	"	5,000 00			
March 31st, 1937	"	10,000 00	20,000 00	14,814 53	5,185 47
	Department of Legislation				
July 24th, 1936	Empire Parliamentary Association, in payment of membership fees of the Ontario Legislature for a two-year period ending March 31st, 1937		1,300 00	1,300 00	
	Department of Northern Development				
	Costs and expenses incurred in connection with the Commission appointed to inquire into and report on certain charges at Matheson—				
	Balance unexpended, 1935-36		3,015 82	548 80	2,467 02
June 10th, 1936	To provide for Relief Seed Grain		85,000 00	56,764 33	28,235 67
	Department of Provincial Secretary				
September 24th, 1936	Grant to Prisoners Rehabilitation Society to assist in their work in connection with the re-establishment of ex-prisoners		2,500 00	2,500 00	

SPECIAL WARRANTS—Continued

Date of Warrant	SERVICE		Warrants	Expended 1936-37	Unexpended
	Department of Provincial Treasurer				
May 15th, 1936	Hon. J. L. Simpson to reimburse him for the assistance given Mrs. Alfred Scadding, to defray her expenses to Moose River, Nova Scotia, in connection with the Magill mine disaster		200 00	200 00	
	Department of Public Welfare				
June 3rd, 1936	Grant to Ontario Society for Crippled Children, for the carrying on of their work throughout the province		6,000 00	6,000 00	
	Ontario Government Small House Competition and Housing Scheme—				
August 6th, 1936	Warrant	$1,000 00			
September 24th, 1936	"	$1,500 00	2,500 00	2,139 23	360 77
November 24th, 1936	Memorial wreaths for Community Remembrance Services in the Province of Ontario		2,250 00	2,174 75	75 25
April 17th, 1937	Payment for services rendered to the Department of Public Welfare, Municipal Affairs and Labour, by Mr. Robert Smith, in connection with a survey of administration costs		2,500 00	2,500 00	
	Department of Public Works				
July 24th, 1936	Grant to the Municipality of Clarence towards the dredging of Cobb Lake Drain in the County of Prescott		5,000 00	5,000 00	
	TOTAL SPECIAL WARRANTS		$194,685 10	$158,323 42	$36,361 68

Report For 1937

OF

The Workmen's Compensation Board

ONTARIO

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
Sessional Paper No. 28, 1938

ONTARIO

TORONTO
Printed and Published by T. E. Bowman, Printer to the King's Most Excellent Majesty
1938

HON. M. M. MacBRIDE,
Minister of Labour,
Parliament Buildings,
Toronto, Ontario.

DEAR MR. MacBRIDE:

I have the honour to submit herewith the Annual Report of The Workmen's Compensation Board for the year 1937.

Yours very truly,

J. HAROLD,
Chairman.

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THE WORKMEN'S COMPENSATION BOARD

JOHN HAROLD, Chairman.
E. HUTCHINSON, Vice-Chairman.
DR. D. J. GALBRAITH, Commissioner.
S. R. JOHNSTON, Secretary.

Since the last Report, the Board has suffered the loss of George Wilkie, K. C., late Chairman, who died January 29, 1938.

Mr. Wilkie was born in Middlesex County, November 22, 1867; was educated in the University of Toronto, and took his Bachelor of Arts degree in Natural Science, 1888. In 1892 he graduated from the Ontario Law School, Osgoode Hall. October 31, 1934, he was appointed Chairman of The Workmen's Compensation Board and served until his death.

In private life he was kindly disposed, tolerant of disposition, amiable, genial and sincere. His long practice of the law, and his interest in public questions gave him an understanding of the problems of life and citizenship, and his high sense of duty, right and justice peculiarly fitted him for the position he occupied.

Taking hold after the period of depression, he strove to place the administration of The Ontario Workmen's Compensation Act in an impeccable position. His passing was a distinct shock to the many employers, workmen and friends who valued his sterling qualities.

REPORT FOR 1937

OF

The Workmen's Compensation Board

ONTARIO

Offices:
4th Floor Canada Life Bldg., 330 University Ave., Toronto

TO HIS HONOUR THE LIEUTENANT GOVERNOR:

The Workmen's Compensation Board begs to submit its Report for the year 1937.

GENERAL REVIEW

Up to December 1, 1920, the Province provided office accomodation, lighting and heating, but since that time, these expenses have been paid by the Board out of the moneys collected from the employers.

Up to the end of 1922, the Province had contributed $655,500 under Section 77 of the Act towards the administration expenses, but has made no contribution under this section since that time.

Prior to the amendment of 1928, the salaries of the commissioners were paid by the Province, but since that time the total cost of the administration of the Act has been paid from the funds collected by the Board from the employers. The Province, of course, pays its share of the cost of handling its accident cases which are referred to the Board.

Accidents and Benefits

The past year, owing to increased employment, the number of accidents reported to the Board continued the upward trend. During 1937 there were 70,582 reported, as compared with 61,382 in 1936, and 58,546 in 1935.

The total benefits awarded during the year amounted to $6,129,960.55, as compared with $5,643,798.79 during 1936, and $5,314,112.87 during 1935.

The average time loss for accidents causing temporary disability for which compensation was paid was 27.52 days for 1936, as compared with 29.86 days for 1935.

The average weekly wage on which compensation was based was $18.82 for 1936, as compared with $17.60 for 1935.

Of the total benefits awarded during the year, $4,878,112.08 was for compensation and $1,251,848.47 was for medical aid.

The total benefits awarded from the commencement of the Act (January 1, 1915) to January 1, 1938, amounted to $122,336,886.80, and the total accidents reported during the same period were 1,253,323.

Assessments

For 1937 a new method of assessment was adopted on the recommendation of employers' group associations, by which an employer could be called upon, based upon the accident cost ratio of the last completed year, to pay as high as double the preferred rate.

After the year's experience with this method of assessment it has been found that in many instances some modification was requested. Based upon our experieince it is proposed to give careful consideration to the problem of preferential assessments with a view to making the plan more equitable and consistant in its operation.

For 1937 the total amount collected for assessments and estimated to be collected was $6,778,602.04, as compared with a total of $6,379,129.19 for 1936.

The average rate of assessment for all classes in Schedule 1 is estimated to be $1.39 for each $100.00 of pay roll for 1937, as compared with $1.50 for 1936.

Finances

Substantial progress has again been made in meeting the financial condition resulting from the depression and its aftermath. The provisional rate of $1.50 for each $100.00 of pay roll set for 1937 was reduced to an actual rate of approximately $1.40. The provisional surplus which stood at $2,089,059.16 December 31, 1936, now stands at $3,634,789.21, and only two classes, Classes 1 and 4, show deficits, each of less than $7,000.00, as compared with five classes the prior year. The liability for silicosis in the mining industry has been overtaken. There is a reserve of $644,151.20 for depreciation of securities, and $338,074.53 written off during the year.

There has been a change in the position of defaulted municipal securities. At the end of 1937 there was in default in Schedule 1, $123,886.36 principal and $298,964.47 interest, a total of $422,850.83, as compared with a total of $664,147.76 at the end of 1936. During 1937 the accruing interest in default totalled $79,097.15, as compared with $170,042.22 during 1936.

Safety Associations

During 1937, $164,000.00 was paid to Safety Associations, an increase of $12,556.25 over 1936.

The Board recognizes the importance of systematized efforts to prevent accidents, as accidents cause suffering, waste, and want: the prevention of an accident is more important than its compensation. A careful check is being kept upon each firm's accident experience. An association including all firms in Class 24, the building construction industry, has been revived, and should contribute its share to the general safety movement.

Pension Fund

The Pension Fund in Schedule 1, amounting at the end of 1937 to $22,275,818.13, is not a reserve fund: it is the amount which with accumulation of interest is actuarially required to pay future pensions to persons now in receipt of pensions. There is a definite liability to pay pensions equal to the amount of the Pension Fund. The only reserves the Board has are the Disaster Reserve, amounting to $229,649.75, and the Reserve for Depreciation of Securities, amounting to $644,151.20.

Administration Expenses

The expense ratio of the Board during 1937, proportionate to receipts in Schedule 1, was 4.52%, compared with 4.06% for 1936; 4.37% for 1935; and 5.78% for 1934. Proportionate to benefits awarded, administration expense ratio was 6.35% in 1937; 6.78% in 1936; 6.96% in 1935; and 6.65% in 1934.

Silicosis in the Mining Inrustry

The Board has collected or added in interest $3,881,983.21 to provide for silicosis cases in the mining industry. The total liability against the silicosis account at the end of 1937 was $3,526,367.61, leaving a surplus of $355,615.60.

Contents of the Report

The chapters following contain the particulars of the Board's operations during 1937, and the appendix, a resume of operations since January 1, 1915.

Dated at Toronto this 24th day of March, 1938.

J. HAROLD, Chairman.

E. HUTCHINSON, Vice-Chairman.

D. J. GALBRAITH, Commissioner.

TABLE 1

PROVISIONAL FINANCIAL STATEMENT FOR SCHEDULE 1, BY CLASSES, AS AT DECEMBER 31, 1937

Class	INCOME and CREDITS (Actual and Estimated)				EXPENDITURES AND CHARGES (Actual and Estimated)								TOTAL FOR YEAR	SURPLUS OR DEFICIT FOR YEAR (Provisional)	Estimated to Complete Prior Years' Accidents	Balance Forward Prior Years	SURPLUS OR DEFICIT ALL YEARS (Provisional)	Class
	Collected on Provisional Assessments	Estimated Adjustments of Assessments	Sections 8, 105, 112 (3), Etc.	TOTAL FOR YEAR	Compensation Paid other than Pensions	Transferred for Pensions Awarded	Compensation Awarded Payment Deferred	Compensation Estimated Outstanding for 1937 Accidents	Medical Aid Paid	Medical Aid Estimated Outstanding for 1937 Accidents	Administration Expenses, Disbursements under Sec. 8, and Mine Rescue Work	Paid to Safety Associations						
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	
1	637,040.80	228,000.00	5,062.87	870,103.67	174.252.48	64,228.00	1,460.00	209,224.25	97,866.53	54,519.13	38,574.20	24,500.00	664,624.59	205,479.08	47,475.75	—164,571.33	—6,568.00	1
2	370,647.30	69,000.00	217.04	439,864.34	83,168.79	40,739.25	740.00	156,556.87	47,578.27	34,389.97	16,921.68	13,500.00	393,594.83	46,269.51	46,380.04	154,262.22	154,151.69	2
3	65,293.70	23,900.00	171.16	89,364.86	14,802.02	....	897.50	10,363.84	9,421.32	2,590.96	3,305.58	2,926.61	44,307.83	45,057.03	....	7,771.67	52,828.70	3
4	137,182.46	24,700.00	918.59	162,801.05	28,951.59	15,977.00	1,140.00	38,049.00	18,162.91	11,128.74	7,221.62	6,368.31	126,999.17	35,801.88	22,700.00	—14,280.89	—1,179.01	4
5	1,186,753.74	—105,900.00	2,119.43	1,082,973.17	247,322.38	175,936.77	2,662.50	368,611.15	120,469.93	102,174.77	*73,331.21	11,500.00	1,102,008.71	—19,035.54	95,869.96	1,232,455.47	1,117,549.97	5
6	128,138.14	36,550.00	309.45	164,997.59	26,637.19	10,316.00	....	93,188.71	17,138.41	20,699.06	8,756.08	7,680.15	184,415.60	—19,418.01	73,983.00	123,039.88	29,638.87	6
7	112,294.16	4,850.00	....	117,144.16	21,331.50	13,367.00	865.00	23,918.96	13,368.10	3,877.52	5,155.83	4,536.18	86,420.09	30,724.07	9,500.00	133,521.18	154,745.25	7
8	163,887.68	31,600.00	152.52	195,640.20	29,920.29	19,108.00	365.00	27,290.95	17,889.79	6,114.68	7,479.95	6,617.51	114,786.17	80,854.03	78,050.00	117,688.70	120,492.73	8
9	133,485.40	23,600.00	1,764.62	158,850.02	30,209.68	20,312.00	405.00	44,952.48	22,663.22	9,219.03	8,561.18	7,525.47	143,848.06	15,001.96	14,500.00	246,259.19	246,761.15	9
10	382,691.32	—22,200.00	2,401.92	362,893.24	76,406.80	29,137.00	1,675.00	72,841.10	57,554.52	23,661.33	19,031.16	16,696.51	297,003.42	65,889.82	57,530.00	218,341.39	226,701.21	10
11	310,234.92	20,900.00	922.09	332,057.01	54,636.10	27,853.25	....	57,711.61	52,420.27	17,281.91	15,650.62	13,804.75	239,358.51	92,698.50	34,866.73	100,021.87	157,853.64	11
12	202,522.34	—5,900.00	2,222.16	198,844.50	30,238.44	15,585.00	130.00	24,677.90	20,447.01	8,935.47	10,528.88	9,307.32	119,850.02	78,994.48	26,125.78	110.138.32	163,007.02	12
13	71,628.97	3,500.00	205.76	75,334.73	13,688.80	7,737.00	150.00	17,933.12	8,950.93	5,509.48	3,620.06	....	57,589.39	17,745.34	9,785.00	29,595.53	37,555.87	13
14	66,895.20	11,300.00	187.07	78,382.27	9,072.30	6,519.00	110.00	8,139.09	8,164.80	2,034.77	3,435.36	3,030.63	40,505.95	37,876.32	....	—3,299.54	34,576.78	14
15	350,020.74	—800.00	3,781.19	353,001.93	66,626.55	23,267.25	....	53,930.15	46,530.02	14,876.90	17,485.21	15,220.10	237,936.18	115,065.75	26,405.00	12,146.72	100,807.47	15
16	114,912.62	—1,300.00	326.69	113,939.31	20,317.16	16,152.50	305.00	13,913.33	15,378.57	4,001.24	5,766.08	5,113.69	80,947.57	32,991.74	5,600.00	85,243.48	112,635.22	16
17	111,031.89	12,900.00	202.41	124,134.30	25,676.89	26,554.36	435.00	22,899.43	17,774.48	5,918.35	7,006.05	6,120.22	112,384.78	11,749.52	2,700.00	57,373.46	66,422.98	17
18	76,297.03	—7,200.00	333.77	69,430.80	13,529.10	1,185.00	75.00	7,922.10	11,530.30	4,335.88	3,775.17	3,387.34	45,739.89	23,690.91	18,000.00	58,598.80	64,289.71	18
19	100,277.74	9,300.00	480.91	110,058.65	21,043.09	9,701.55	290.00	22,940.88	15,323.47	3,838.59	5,139.87	4,497.94	82,775.39	27,283.26	2,190.00	29,673.07	54,766.33	19
20	271,953.91	68,500.00	2,631.08	343,084.99	67,391.69	52,558.25	685.00	75,721.37	43,149.58	18,379.61	15,804.56	....	273,690.06	69,394.93	49,760.42	95,755.79	115,390.30	20
21	196,066.98	96,500.00	—1,300.67	291,266.31	80,150.23	47,038.75	230.00	92,005.64	42,656.24	29,794.51	14,404.93	....	306,280.30	—15,013.99	70,378.00	135,335.91	49,943.92	21
22	243,059.04	—9,700.00	1,873.59	235.232.63	37,691.72	55,498.00	....	43,645.44	24,828.18	20,756.62	10,585.24	4,500.00	197,505.20	37,727.43	17,000.00	72,107.01	92,834.44	22
23	102,824.01	14,200.00	505.13	117,529.14	20,650.57	10,349.00	....	27,034.65	10,888.45	8,619.88	4,398.78	—2,832.73	79,108.60	38,420.54	20,000.00	334,934.48	353,355.02	23
24	613,661.95	103,500.00	15,968.90	733.130.85	122,948.95	28,111.00	1,697.50	236,640.82	78,722.82	59,422.23	30,498.06	....	558,041.38	175,089.47	104,837.00	65,975.48	136,227.95	24
ALL	6,148,802.04	**629,800.00	‡41,457.68	6,820,059.72	1,316,664.31	717,230.93	14,317.50	1,750,112.84	818,878.12	472,080.63	* †336,437.36	164,000.00	5,589,721.69	1,230,338.03	833,636.68	3,238,087.86	3,634,789.21	ALL

** Adjusted on actual pay rolls and retroactive rates.

‡Includes: Sec. 8, $5,141.52; Sec. 88 (5), $74.25; Sec. 105, $7,094.36; Sec. 112 (3), $224.35; Reimbursement from D. P. & N. H., $20,803.19; from Accident Cost Refunds, $7,862.91; for Compensation and Medical Aid for Blind Workmen, under 21 Geo. V, cap. 38, $257.10.

† Includes disbursements under Sec. 8, $468.35.

* Includes Mine Rescue Work, $12,930.31.

Class Numbers of Industries

1. Lumbering.
2. Pulp and paper mills.
3. Furniture mfg., etc.
4. Planing mills, etc.
5. Mining and explosives.
6. Brick mfg., quarrying, and glass works.
7. Rolling mills, etc.
8. Foundries, etc.
9. Fabrication structural steel, etc.
10. Metal articles, jewelry mfg., etc.
11. Agricultural implements, etc.
12. Gas, petroleum, paint, drugs, soap, etc.
13. Milling.
14. Abbattoirs, etc.
15. Bakeries, canning, liquors, and tobacco.
16. Tanneries, leather and rubber goods.
17. Textiles.
18. Clothing, power laundries, etc.
19. Printing and stationery.
20. Teaming, cartage, coal and wood yards, etc.
21. Road construction, etc.
22. Electric power, etc.
23. Steel construction, railway and canal construction, dredging, fishing, etc.
24. Building.

CHAPTER I

SCHEDULE I INDUSTRIES FOR 1937

As some of the industries covered by the Act are under the collective liability system (the employer not being individually liable for accidents to his workmen but being assessed to provide a general fund out of which accidents occurring in his class of industry throughout the Province are taken care of) and others are under the individual liability system (the employer being liable to pay for accidents happening to his own workmen), separate financial statements have to be made for each. The industries under the collective liability system are included in Schedule 1, and those under individual liability in Schedule 2, the former comprising much the greater number.

This chapter deals with Schedule 1 industries for 1937. Schedule 2 industries are dealt with in Chapter II, while Chapter III deals with the work handled in both schedules and the administration of the Act generally during the year, Chapter IV with the different funds in both schedules and their standing at the end of 1937, and Chapter V gives financial and statistical information for 1936 which was not available when the report for that year was made.

Provisional Financial Statement

The provisional financial statement for the industries in Schedule I for 1937 is contained in Table 1. To show the standing for the year, estimates have to be made of adjustments of assessments according to actual pay rolls and on the retroactive rates (the assessments for the year being first levied on an estimate of pay roll and at a provisional rate), and estimates also have to be made of compensation and medical aid still to be awarded for accidents happening during the year which have not yet been finally disposed of by reason of the injured workman being still under medical treatment or reports not being received. These estimates contain also all liabilities for claims of previous years yet outstanding and provision for claims of prior years which may subsequently be adjusted. Final figures for the year 1937 will be shown in the next subsequent report in the same manner as the final figures for 1936 are shown in Table 15 of this report.

The difference is to be noted between the amount of compensation and medical aid awarded for the year's accidents and the amount awarded during the year. The latter is partly for the prior year's accidents, while upon the other hand it does not cover all the liability for the current year's accidents. The more correct system of charging each year as far as possible with its own accidents, and for that purpose keeping the year's accounts open till the end of the subsequent year, has been adopted, rather than the looser method of taking the amount awarded during the year as the cost of the year's accidents and leaving always an outstanding liability unprovided for. For the purpose of information and comparison, however, the amounts awarded during the year are shown in Chapter III.

Accounts for Each Class

The industries in Schedule 1 are divided into classes, and as each class (subject to any transfer that may be made to it from the Disaster Reserve in any case of undue burden) bears its own accident cost—the employers in the class being in effect a mutual insurance association—separate accounts have to be kept for the different classes. Each class is credited with its own assessments, its share of interest and other income, and with any transfer made to it from Disaster Reserve, or credit from any other source, and is charged with the cost of its own accidents, its share of administration expenses, the cost of its safety association if it has one, and with its share of any amount set aside for Disaster Reserve.

The figures for each class, and the provisional surplus or deficit for the year, and the balance forward from prior years, and the provisional surplus or deficit for all years, are shown in Table 1. The final figures for each class and also the figures for the different groups within the classes (as in Table 15) will be shown in the next report. The assessments are fixed according to the accident cost and other expenses and charges in each class and group and having regard to the other income and credits.

The classes are numbered and the nature of the industries in each is shown at the bottom of Table 1 and full enumeration of the industries will be found in Schedule 1 of the Act and in the Board's rate book, the latter also showing the grouping within the Class.

Assessments and Other Credits

The total assessments in all classes in Schedule 1 for the year 1937, including estimated adjustments, amounted to $6,778,602.04. In assessments are included collections for default in making returns or payments and interest for under and over estimate of pay roll. The other income and credits for the year consisted of reimbursement for veteran cases, received from the Department of Pensions and National Health; reimbursement for accidents to blind workmen under 21 Geo. V, Cap. 38 (Ontario); cost of accidents collected under Section 105 for failure to furnish pay roll prior to accident; recovery from third parties under Section 8; receipts by virtue of special order under Section 88 (5); collections under Section 112 (3) from employers for failure to furnish particulars of accidents; and refunds of accident costs. Other incomes and credits amounted to $41.457.68. The total income and credits for the year are, therefore $6,820,059.72.

Compensation and Other Charges

The compensation for Schedule 1 industries for the year, including estimate for what is still to be awarded for accidents happening during the year and for adjustment of prior years' accidents, amounted to $4,631,962.26; the medical aid, including estimate for what is outstanding, amounted to $1,290,958.75; administration expenses for Schedule 1, including $12,930.31 for mine rescue work and $468.35 disbursements under Section 8, amounted to $336,437.36, and $164,000.00 was paid to employers' safety associations. The total expenditures and charges for the year were $6,423,358.37.

The provisional surplus for the year was $1,230,338.03. The balance forward from prior years was a surplus of $3,238,087.86, which, added to the surplus for the year, less the carry-over for prior years' claims, which amounted to $833,636.68, makes a net provisional surplus of $3,634,789.21 at December 31, 1937.

Number of Employers

Total number of employers listed in Schedule 1 at the end of 1937 was 23,871, as compared with 22,658 at the end of 1936. The number in each class and group of industry is shown in Table 2.

Wage Expenditure

The estimated total wage expenditure in Schedule 1 industries for the year 1937, calculated on provisional figures, is $488,259,450, as compared with $425,603,000 in 1936. The amounts for the different classes of industry are shown in Table 3.

The Board has no similar data for Schedule 2 and Crown industries as in these the employers pay for accidents to their own workmen and are not required to make pay roll returns or pay assessments upon them as in Schedule 1, The pay roll would probably be about one-third that of Schedule 1.

Average Rates of Assessment

Assessments in Schedule 1 are in the form of a percentage of pay roll, and the average rate or percentage over all the classes actually paid by the employers can be ascertained by relating the total assessments to the total wage expenditure. This, on the provisional figures, gives an average rate of assessment for 1937 of $1.39 on every $100.00 of pay roll. The average over all years since the commencement of the Act was $1.20.

TABLE 2

NUMBER OF FIRMS IN SCHEDULE 1, BY CLASSES AND GROUPS, DECEMBER 31, 1937

Class	Group 0	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8	Group 9	TOTALS
1	64	54	925								1,043
2	34	36	23								93
3	283										283
4	344	52	75	26	102						599
5		664	6			11	14	12			707
6	75	180	7	32	45	101	111				551
7	15										15
8	106		44	40							190
9	18	12	1	13	158	14					216
10	340	292	32	89	58	25	175	109			1,120
11	29	759	27	1							816
12	40	253	121	21	256						691
13	519	91									610
14	112										112
15	396	280	66	134	67	251	34				1,228
16	53	106	79	20	41						299
17	143	137	48								328
18	720	178									898
19	304	584	34	69							991
20	1,956	1,126									3,082
21	182	72									254
22	165	225	207	745							1,342
23	84	45	357								486
24	3,753	415		506	1,220	1,129	381	191		322	7,917
All											23,871

TABLE 3

ESTIMATE OF WAGE EXPENDITURE, SCHEDULE 1 BY CLASSES, FOR 1937

Class	Wage Expenditure
1	$ 11,961,300.
2	24,644,000.
3	9,099,200.
4	7,927,400.
5	51,147,375.
6	8,042,175.
7	14,330,000.
8	11,944,000.
9	14,828,000.
10	50,947,000.
11	40,400,000.
12	25,527,000.
13	5,220,000.
14	7,836,000.
15	38,738,000.
16	20,947,000.
17	30,425,000.
18	20,482,000.
19	26,344,000.
20	12,283,000.
21	6,280,000.
22	24,119,000.
23	4,146,000.
24	20,642,000.
TOTAL	$488,259,450.

CHAPTER II

SCHEDULE 2 INDUSTRIES DURING 1937

Table 4 is a statement of the compensation awarded and the moneys handled during 1937 in Schedule 2 industries (in which the employer is individually liable for accidents to his workmen). Dominion Crown Cases under the Act by Dominion legislation, and Provincial Crown Cases referred to the Board for adjustment, are included.

The total amount of compensation awarded in Schedule 2 industries and Crown Cases during 1937 was $1,040,523.46. Of this amount, $219,502.16 was for workmen of municipal corporations; $216,024.38 for steam railroads; $8,479.81 for electric railways; $126,868.71 for navigation companies; $2,540.02 for express and sleeping-car companies; $2,967.05 for telephone and telegraph companies; and $417.06 for all other industries in Schedule 2; $289,481.68 for Dominion Crown Cases and $174,242.59 for Provincial Crown Cases. Of the total amount awarded, $636,992.71 was for pensions in pension cases, and $403,530.75 was for cases not pension cases and for compensation not pensions in pension cases.

In pension cases, except in the case of municipal or government bodies or departments thereof, not so desiring, deposits must be made by employers in Schedule 2 industries. Particulars of these are given under "Deposits under Section 28." Under "Claimants' Moneys" are included moneys held by the Board under awards in which the interest of the claimant, or for some other reason, payment of the amounts held is deferred to a later date, as in the case of minors. "Deposits under Section 32" are amounts deposited with the Board to enable the Board to make prompt payments without waiting for receipt of cheque from employer.

Employers in Schedule 2 are assessed their share of the expense of administration as set out in Table 8. For 1937, that share amounted to $23,159.11, as compared with $26,616.04 in 1936, and $22,800.86 in 1935. Proportionate to the amount of compensation awarded, administration expenses in Schedule 2 and Crown Cases were 4.94 per cent. in 1937 as compared with 5.80 per cent. in 1936 and 8.07 per cent. in 1935.

Further information as to Schedule 2 funds and particulars of Schedule 2 investments are given in Chapter IV, and in Tables 9 and 14, and in the Appendix.

TABLE 4

STATEMENT FOR SCHEDULE 2 DURING 1937

SCHEDULE 2 AWARDS

	Awards not Pensions	Pensions	TOTALS
Municipal Corporations, etc.	$ 69,927.21	$149,574.95	$219,502.16
Steam Railroads	63,122.66	152,901.72	216,024.38
Electric Railways	3,462.81	5,017.00	8,479.81
Navigation Companies	29,102.67	97,766.04	126,868.71
Express and Sleeping Car Companies	1,550.02	990.00	2,540.02
Telephone and Telegraph Companies	2,967.05	....	2,967.05
All others	417.06	....	417.06
Dominion Crown Cases	144,561.68	144,920.00	289,481.68
Provincial Crown Cases	88,419.59	85,823.00	174,242.59
TOTALS	$403,530.75	$636,992.71	$1,040,523.46

SCHEDULE 2 FUNDS

Deposits under Section 28

Cash in bank and invested, Jan. 1, 1937	$3,389,307.54	
Deposits received from employers	265,995.58	
Interest received	159,445.32	
Paid to pensioners		$ 335,309.70
Deposits returned to employers		9,686.50
Cash in bank and invested, Dec. 31, 1937		3,469,752.24
	$3,814,748.44	$3,814,748.44

Claimants' Moneys

Cash in bank and invested, January 1, 1937	$ 16,907.03	
Deposits received from employers	2,330.04	
Interest received	774.56	
Paid to claimants		$ 4,303.16
Cash in bank and invested, Dec. 31, 1937		15,708.47
	$ 20,011.63	$ 20,011.63

Deposits under Section 32

Cash in bank, Jan. 1, 1937	$ 53,439.51	
Deposits received from employers	771,360.46	
Payments made—Compensation and Medical Aid		$ 761,086.40
Deposits returned to employers		17,316.35
Cash in bank, Dec. 31, 1937		46,397.22
	$ 824,799.97	$ 824,799.97

Reserve for Depreciation of Securities

Cash in bank and invested, Jan. 1, 1937	$ 158,943.68	
Interest received	7,540.99	
Profit on sale of investments during 1937	17,341.04	
Cash in bank and invested, Dec. 31, 1937		$ 183,825.71
	$ 183,825.71	$ 183,825.71

TOTALS OF FUNDS

Cash in bank and invested, Jan. 1, 1937	$3,618,597.76	
Deposits received from employers	1,039,686.08	
Interest received	167,760.87	
Profit on sale of investments during 1937	17,341.04	
Payments made		$1,100,699.26
Deposits returned to employers		27,002.85
Cash in bank and invested, Dec. 31, 1937		3,715,683.64
	$4,843,385.75	$4,843,385.75

CHAPTER III

WORK HANDLED DURING 1937

This chapter deals with the work handled during 1937 and with the administration of the Act generally during the year. Particulars are given in Tables 5 to 8.

The figures are for what has been dealt with during 1937 without regard to the year in which the accidents dealt with occurred, while, as explained in Chapter I, the figures in Chapter I and Chapter V are for the accidents happening during the year.

Benefits Awarded During the Year

The total amount of compensation awarded during 1937 was $4,878,112.08, of which $3,837,588.62 was in Schedule 1 industries, $576,799.19 in Schedule 2 industries, and $463,724.27 in Crown cases. There was also paid for medical aid in Schedule 1 industries during the year $1,251,848.47, making the total benefits awarded during the year $6,129,960.55. In Schedule 2 and Crown cases (for the most part) medical aid is provided directly by the employer and no figures are available.

The benefits awarded each year, and the total since the commencement of the Act, are as follows:

	Schedule 1		Schedule 2	
Year	Compensation	Medical Aid	and Crown Compensation	Total Benefits
1937	$ 3,837,588.62	$ 1,251,848.47	$ 1,040,523.46	$ 6,129,960.55
1936	3,553,282.23	1,058,642.36	1,031,874.20	5,643,798.79
1935	3,225,898.54	1,037,682.86	1,050,531.47	5,314,112.87
1934	2,745,239.16	841,738.41	912,729.66	4,499,707.23
1933	2,298,787.97	667,581.69	732,699.29	3,699,068.95
1932	3,202,639.27	817,240.38	1,105,740.91	5,125,620.56
1931	3,917,045.43	1,060,763.01	1,043,583.66	6,021,392.10
1930	4,942,756.25	1,336,046.05	1,144,216.52	7,423,018.82
1929	5,346,621.19	1,385,524.62	1,280,011.97	8,012,157.78
1928	4,565,688.56	1,166,507.54	1,335,750.83	7,067,946.93
1927	3,930,417.59	1,062,859.64	1,091,377.64	6,084,654.87
1926	3,664,039.94	988,486.70	1,168,825.26	5,821,351.90
1925	3,635,530.27	875,836.01	1,054,077.11	5,565,443.39
1924	4,052,287.77	835,956.60	1,234,575.97	6,122,820.34
1923	4,036,170.26	788,905.90	1,348,785.58	6,173,861.74
1922	3,417,101.61	692,819.94	1,582,975.06	5,692,896.61
1921	3,858,017.50	662,793.89	1,668,452.10	6,189,263.49
1920	5,113,149.77	703,705.66	1,963,389.82	7,780,245.25
1919	2,808,638.65	386,298.51	997,922.77	4,192,859.93
1918	2,751,137.45	369,346.37	763,511.02	3,883,994.84
1917	2,286,954.99	*83,514.07	623,556.37	2,994,025.43
1916	1,553,653.38	†	451,709.93	2,005,363.31
1915	692,389.09	†	200,932.03	893,321.12
Totals	$79,435,035.49	$18,074,098.68	$24,827,752.63	$122,336,886.80

* Half year only. † No provision for medical aid.

The increase in benefits from the early years is largely by reason of increase in wages, compensation being for the most part a percentage of wages, and additional industries have been covered, and some material changes were made in compensation. The large total for 1920 is by reason of the retroactive increase in widows' and children's pensions, and the small amount awarded during 1915 is by reason of many 1915 accidents not being, nor capable of being, finally disposed of till the following year. The amount of benefits awarded for each year's accidents, as distinguished from the amount awarded during the year, is shown in Chapter V.

Accidents Reported During the Year

During 1937, 70,582 accidents were reported. These included some not serious enough to involve payment of either compensation or medical aid and for which no claim was made, and others for which claims were made but which were not allowed by the Board.

At the close of the year there were 1,687 claims in assembly, as compared with 1,375 at the end of 1936, notice of the accident having been given but reports necessary to deal with the case not yet having been received.

The number of accidents reported each year, and the total number since the commencement of the Act, are as follows:

Year	Schedule 1	Schedule 2	Crown	Totals
1937	64,845	2,554	3,183	70,582
1936	55,878	2,515	2,989	61,382
1935	50,690	2,208	5,648	58,546
1934	44,858	2,244	7,628	54,730
1933	33,227	1,890	2,925	38,042
1932	35,264	2,474	3,732	41,470
1931	46,069	3,348	3,477	52,894
1930	61,490	4,486	3,291	69,267
1929	76,029	6,008	5,066	87,103
1928	69,011	5,815	4,572	79,398
1927	62,063	5,412	4,504	71,979
1926	57,032	4,942	3,942	65,916
1925	50,883	5,079	4,050	60,012
1924	49,558	4,916	4,201	58,675
1923	51,655	6,080	3,374	61,109
1922	42,139	7,124	1,148	50,411
1921	36,272	7,666	1,253	45,191
1920	46,177	7,222	1,452	54,851
1919	36,236	7,918	106	44,260
1918	40,662	7,113	73	47,848
1917	30,701	5,813	18	36,532
1916	21,269	4,806	17	26,092
1915	13,878	3,144	11	17,033
All Years	1,075,886	110,777	66,660	1,253,323

Accidents Paid For During the Year

Table 5 shows the number of accidents in which compensation or medical aid was paid during the year. The total number was 66,368, as compared with 56,189 during 1936. The 66,368 comprised 353 deaths, 20 permanent total disability cases, 1,091 permanent partial disability cases, 29,806 temporary disability cases, and 35,098 medical aid only cases. Except for Provincial Crown Cases, Schedule 2 and Crown Cases involving medical aid only, which are a large proportion of the accidents reported, are not included as accidents paid for, as the medical aid is furnished by the employer.

The number of accidents in which compensation or medical aid was awarded each year since the commencement of the Act is as follows:

Year	Schedule 1	Schedule 2	Crown	Totals
1937	61,643	1,897	2,828	66,368
1936	51,620	1,828	2,741	56,189
1935	46,960	1,707	5,631	54,298
1934	41,244	1,800	6,258	49,302
1933	29,766	1,487	2,453	33,706
1932	38,469	1,914	3,521	43,904
1931	43,611	2,561	2,710	48,882
1930	56,715	2,723	2,357	61,795
1929	68,195	2,883	2,737	73,815
1928	61,384	2,723	2,425	66,532
1927	55,894	2,741	2,443	61,078
1926	52,199	2,489	2,182	56,870
1925	47,782	2,734	2.217	52,733
1924	46,616	2,820	2,475	51,911
1923	47,873	3,849	1,916	53,638
1922	37,172	4,572	765	42,509
1921	34,271	5,161	834	40,266
1920	42,693	4,444	714	47,851
1919	34,400	4,517	153	39,070
1918	36,565	4,335	30	40,930
*1917	25,277	3,406	19	28,702
*1916	15,370	2,825	3	18,208
*1915	8,328	1,494	7	9,829

*Cases involving medical aid only not covered till July 1, 1917.

Awards Changed

In addition to claims compensated, as shown in Table 5, the Board in 1937 opened for further award 722 claims which had been settled previously.

Cheques, Assessments, Mail, and Callers

In all, 283,055 cheques were issued during 1937, an average of about 966 daily, and there were 32,279 assessments made, including refunds. About 5,600 pieces of mail were handled daily, and the average number of office callers was 57 a day.

Receipts and Payments

The receipts and payments during the year are shown in Table 6, the statement for Schedule 2 including Crown cases. Explanation of the items and the funds referred to will be found in other parts of the report. A summary of receipts and payments since the commencement of the Act is given in the Appendix.

Payments to Safety Associations

The safety or accident prevention associations are organizations of employers established under the authority of the Act by the employers in 20 out of the 24 classes of industry. They are under the management of the employers, but the expenses are paid by the Board out of the accident fund.

The total amounts so paid are set out in Table 7, which table also shows the amount paid out on account of mine rescue work in Class 5.

Administration Expenses

The administration expenses of the Board, analyzed under the different headings, are shown in Table 8. The gross administration expenses during 1937 were $396,397.37, which included special statistical services for which refunds have been received of $10,000, making the total administration expenses $386,397.37, as compared with $377,326.11 during 1936. The employers pay the whole expense of the administration of the Act. The amount is divided, according to the number of accidents handled, among Schedule 1 (Accident Fund and Silicosis Account), Schedule 2, and Dominion and Provincial Crown.

The amount charged to the Silicosis Account was $10,391.72; to the Rehabilitation Clinic, $1,000; to Mine Rescue Work, $615.73; and to Schedule 1 employers, $323,038.70; to Schedule 2, $23,159.11; to Dominion Crown, $18,388.06; and to Provincial Crown, $9,804.05.

The cost of office furniture, fixtures, and equipment, including permanent equipment, has always been charged to administration expenses in the year in which payment therefor was made, and no entry for which has ever been made in the standing of the funds. The value of this furniture and equipment at the present time is estimated at about $25,000.

The total administration expenses for 1937 less expenses of supervising work in connection with silicosis, rehabilitation and mine rescue stations (not properly administrative work) and handling claims for silicosis, were 6.11 per cent. of benefits awarded, being 6.35 per cent. of benefits awarded in Schedule 1 and 4.94 per cent. in Schedule 2 and Crown cases.

TABLE 5

COMPENSATION, MEDICAL AID, AND ACCIDENTS PAID FOR, DURING 1937

Compensation Awarded during 1937

Schedule 1	$3,837,588.62
Schedule 2	576,799.19
Crown Cases	463,724.27
Total	$4,878,112.08

Medical Aid Paid during 1937

Schedule 1	$1,251,848.47
Schedule 2	furnished by employer
Crown Cases	furnished by employer

Accidents Paid For during 1937

	Medical Aid only	Temp. Dis.	Perm. Partial Dis.	Perm. Total Dis.	Death	TOTALS
SCHEDULE 1—						
Full Compensation	......	22,983	984	20	244	24,231
Part Compensation	......	2,756	......	......	40	2,796
Medical Aid Only	34,616	......	......	......	......	34,616
Totals	34,616	25,739	984	20	284	61,643
SCHEDULE 2—						
Full Compensation	......	1,566	55	......	41	1,662
Part Compensation	......	222	......	......	2	224
Medical Aid Only	11	......	......	......	......	11
Totals	11	1,788	55	......	43	1,897
CROWN CASES—						
Full Compensation	......	2,077	52	......	24	2,153
Part Compensation	......	202	......	......	2	204
Medical Aid Only	471	......	......	......	......	471
Totals	471	2,279	52	......	26	2,828
GRAND TOTALS	35,098	29,806	1,091	20	353	66,368

TABLE 6

STATEMENT OF RECEIPTS AND PAYMENTS DURING 1937

Schedule 1

RECEIPTS

Cash in Banks, January 1, 1937: Canadian Bank of Commerce	$ 4,775.44	
Royal Bank of Canada	22,815.58	
Dominion Bank	180,518.54	
		$208,109.56
Net Assessments, Penalties, etc.		
Gross Assessments	$7,136,944.07	
Under Section 8	5,141.52	
Under Section 105	7,094.36	
Under Section 112 (3)	224.35	
Under Section 88 (5)	74.25	
From D. P. & N. H.	20,803.19	
From Province of Ontario for blind workmen	257.10	
From Accident Cost Refunds	7,862.91	
	7,178,401.75	
Less:		
Assessments and Penalties refunded	$ 32,132.43	
		7,146,269.32
Silicosis		674,480.31
Interest:		
From Investments	$1,334,395.44	
Exchange Premium	1,265.02	
From Bank and Short Date Deposits	7,010.83	
		1,342,671.29
Investments:		
Principal returned	$3,062,079.38	
Profit on Sale of Investments	208,217.46	
		3,270,296.84
From Schedule 2 and Crown Employers for Administration Expenses, account of prior years, paid out of Schedule 1 in 1936		59,815.54
Special Statistical Services		10,000.00
Rehabilitation Clinic:		
Refunds from Medical Aid	$ 10,617.50	
Refunds from Schedule 2 Employers	285.50	
		10,903.00
		$12,722,545.86

PAYMENTS

Compensation Paid, other than Pensions and Compensation Deferred		$1,911,093.12
Pensions		2,081,542.63
Deferred Compensation		29,899.45
Rehabilitation		6,043.60
Medical Aid		1,235,372.33
Silicosis		138,231.08
Under Section 8		468.35
Mine Rescue Work		12,314.58
Administration Expenses		396,397.37
Safety Associations		164,000.00
Rehabilitation Clinic Expenses		9,152.13
Investments		6,466,763.46
Cash in Banks, Dec.31, 1937:		
Canadian Bank of Commerce	$ 438.45	
Royal Bank of Canada	6,272.95	
Dominion Bank	264,556.36	
		$271,267.76
		$12,722,545.86

TABLE 6—Continued

Schedule 2

RECEIPTS		
Cash in Imperial Bank of Canada, Jan. 1, 1937		$ 68,412.33
Employers' Deposits under Section 28		265,995.58
Employers' Deposits under Section 32		771,360.46
Employers' Deposits of Claimants' Moneys		2,330.04
Interest:		
From Investments	$167,216.85	
Exchange Premium	122.50	
From Bank Deposits	421.52	
		167,760.87
Investments:		
Principal returned	191,446.59	
Profit on Sale of Investments	17,341.04	
		208,787.63
		$1,484,646.91

PAYMENTS		
To Claimants out of Deposits under Section 28		$ 335,309.70
Deposits returned to Employers under Section 28		9,686.50
To Claimants out of Claimants' Moneys		4,303.16
Paid out of Deposits under Section 32:		
Compensation	$706,364.06	
Rehabilitation	48.43	
Medical Aid	54,673.91	
		$ 761,086.40
Deposits returned to Employers under Section 32		17,316.35
Investments		262,776.05
Cash in Imperial Bank of Canada, Dec. 31, 1937		94,168.75
		$1,484,646.91

TABLE 7

PAYMENTS TO SAFETY OR ACCIDENT PREVENTION ASSOCIATIONS, 1937

Association	Class	Total Payments	
Lumbermen's Safety Association	1	$ 24,500.00	
Ontario Pulp and Paper Makers' Safety Association	2	13,500.00	
Class 5 Accident Prevention Association	5	11,500.00	
Industrial Accident Prevention Associations	3, 4, 6, 7, 8, 9, 10, 11, 12, 14, 15, 16, 17, 18, 19, 230	110,000.00	
Electrical Employers' Association of Ontario	22	4,500.00	
			$164,000.00

MINE RESCUE WORK ACCOUNT (CLASS 5), 1937

Maintenance of Stations, Salaries and Supplies	$12,314.58	
Administrative Supervision	615.73	
		$ 12,930.31

REHABILITATION CLINIC ACCOUNT, 1937

Credit from 1936		$ 2,549.87	
Receipts during year		10,903.00	
		$13,452.87	
Maintenance, Salaries and Supplies	$9,152.13		
Administrative Supervision	1,000.00		
		$10,152.13	
Balance, December 31, 1937			$ 3,300.74

TABLE 8

ANALYSIS OF ADMINISTRATION EXPENSES DURING 1937

Salaries of Board and Staff	$287,735.40	
Travelling Expenses of Board and Staff	16,029.39	
Printing, Stationery, and Office Supplies	22,469.00	
Postage	30,961.81	
Telephone, Telegraph, and Express	2,080.65	
Legal Expenses, Witness Fees, Etc.	3,135.24	
Medical Examinations, X-ray Supplies	1,444.63	
Workmen's Travelling Expenses	60.02	
Insurance and Security Service	3,433.23	
Auditor's Services, under instructions of Attorney General	2,500.00	
Special Actuarial Services (S. H. Pipe & Co.)	1,500.00	
Office Rent	16,470.00	
Permanent Equipment	5,779.70	
Miscellaneous Services and Repairs	1,689.03	
Meals for Staff when Working Over-time (nights, Saturday afternoons, etc.)	992.90	
Miscellaneous	116.37	
Gross Administration Expenses, 1937	$396,397.37	
Received for Special Statistical Services	10,000.00	
TOTAL ADMINISTRATION EXPENSES		$386,397.37
Charged to Rehabilitation Clnic	$ 1,000.00	
Charged to Silicosis Account	10,391.72	
Charged to Mine Rescue Work	615.73	
Charged to Dominion of Canada	18,388.06	
Charged to Province of Ontario	9,804 05	
Charged to Schedule 2 Employers	23,159.11	
Charged to Schedule 1 Employers	323,038.70	
		$386,397.37

CHAPTER IV

CONDITION OF FUNDS

A general statement of the condition of the funds in Schedule 1 and in Schedule 2 is contained in Table 9, and particulars of the various funds and of the Board's investments are given in Tables 10 to 14. A summary since the commencement of the Act will be found in the Appendix.

Schedule 1 Funds

The Schedule 1 funds are known and referred to in the Act as the "Accident Fund." They comprise, in addition to current funds out of which temporary payments of compensation, medical aid, and administration expenses are paid, the Pension Fund, Disaster Reserve, and Compensation Deferred. The standing of the Accident Fund, showing assets and liabilities, at December 31, 1937, is shown in Table 9. The balance of assets in excess of liabilities at that date was $4,508,590.16, being $229,649.75 Disaster Reserve, $3,634,789.21 standing at the credit of the classes December 31, 1937, and $644,151.20 reserve for depreciation of securities. This is exclusive of office equipment and furniture mentioned in Chapter III.

Pension Fund

The Pension Fund, representing the outstanding pension liability, comprises the largest part of the funds standing to the credit of Schedule 1. The purpose of the Pension Fund is take care of future payments of pensions which have already been awarded. Actuarial tables, embodying the contingencies of death and remarriage, have been compiled to show for each age and kind of pension the average amount (sometimes referred to as capitalized value) necessary to complete pension payments. When a pension is awarded this average amount is transferred from current funds to the Pension Fund. All payments of pensions are made from the Pension Fund. Since the amount transferred in any one instance is the average amount required, no re-transfer is made should a residue be left at the expiry of the pension, nor is any additional transfer made should the amount be exhausted before expiry of the pension.

Re-Transfer from Pension Fund

During the years 1923 and 1924 an actuarial survey of the Board's pension experience and revaluation of the pension liability was made, all existing pensions being revalued. As a result the Pension Fund was found to be a little in excess of what the experience indicated to be necessary. As at date of January 1, 1924, a re-transfer of $600,000 was accordingly made from the Pension Fund to current funds, being distributed among the different classes of industry in proportion to the amount of Pension Fund to the credit of each class.

As of date October 31, 1925, actuarial re-valuation of all outstanding pension fund obligations was made, the Board's actuarial tables being used. To the liability for each class thus ascertained was added a surcharge of two per cent. to allow for possible divergence of actual from expected mortality. Deduction was made of the surcharge liability in total for all the classes from the balance in the Pension Fund and the difference was re-transferred to the current funds, proportional to each class according to the balance in the Pension Fund. The sum transferred amounted to $427,214.62.

Particulars of Pension Fund

Table 10 gives particulars of the Pension Fund for each class. The balance in the fund at the commencement of 1937 was $21,460,847.44; $1,827,356.50 was transferred during the year for pension awards; $1,069,156.82 interest was added; and $2,081,542.63 was paid for pensions. The balance in the fund at the end of the year was $22,275,818.13.

The transfers for pension awards during the year included $69,603.31 transferred from Silicosis Account to provide for pensions in cases of Silicosis in Class 5.

Disaster Reserve

The Disaster Reserve is a fund set aside under the provisions of Section 99 (2) of the Act to meet any unforseen disaster or other circumstance which might unduly burden the employers in any class of industry. The fund has been accumulated by a transfer of one per cent. of the gross assessments up to the end of 1922, and for the year 1928. These are the only moneys set aside or held by the Board which do not directly cover liabilities actually incurred by reason of accidents which have already happened.

The standing of the Disaster Reserve is shown in Table 11. The balance at the end of 1937 was $229,649.75, $8,148.31 interest being added to the $270.501.44 in the fund at the beginning of the year, and $49,000 being withdrawn, of which $45,000 was transferred to Class 6 and 4,000 to Class 21 to meet disasters.

Reserve for Depreciation of Securities

During 1936 a reserve for depreciation of securities was established. This reserve is made up of profits on the sale of investments and excess interest not allocated to Pension Fund, Disaster Reserve, and Compensation Deferred. Withdrawals are made on refunding debentures to "write up" values to market conditions. At the beginning of 1937 there was $509.218.81 in this reserve: during the year was added $208,217.46 profits on sale of investments and $264,789.46 interest; and $338,074.53 was transferred to Investment Account, leaving a balance of $644,151.20 in the reserve at December 31, 1937.

Compensation Deferred

The funds included under "Compensation Deferred" comprise compensation moneys held at interest for claimants in Schedule 1, payment being deferred to a future time by reason of the claimant being a minor or for other reasons. The condition of the fund is shown in Table 12.

At the beginning of the year the amount on hand was $36,967.17; deferred awards during the year amounted to $36,444.43, and $576.70 interest was added during the year; the payments during the year amounted to $29,899.45, of which $28,963.61 was for principal and $935.84 for interest, leaving a balance of $44,088.85.

A considerable portion of the funds included under "Compensation Deferred" do not bear interest, payment of principal being deferred to the future.

Silicosis Account

Table 13 gives particulars of the Silicosis Account which was established to take care of special assessments and payments in Class 5 necessitated by the addition of "Silicosis" contracted in mining operations to the list of industrial diseases under the Act, by amendment effective April 8, 1926.

Condition of Funds—Continued

The balance in the account at the beginning of 1937 was $1,423,622.84; $674,480.31 was collected by assessment; $126,254.28 was paid for compensation; $16,476.14 for medical aid; $62,184.18 for salaries and expenses in connection with examination of underground mine workers; $10,391.72 was transferred to the accident fund for expenses of supervision and handling claims; and $2,919.79 was paid for salaries and expenses of Referee Board. The surplus in the account December 31, 1937, was $1,879,877.04.

Investments

Particulars of the Board's investments are given in Table 14.

The total invested at the end of the year in Schedule 1 was $30,814,005.05, consisting of $27,747,395.50 value of investments at the beginning of the year, $6,466,763.46 invested during the year, less $3,062,079.38 principal returned, and $338,074.53 amount written off for depreciation of securities.

Particulars of each investment are shown in the list, including kind of investment, particular security, yield of interest (on book value), term, par value, and book value.

With the exception of short date deposits of current funds intended for use before the current year's assessments are received, all investments consist of Province of Ontario debentures, municipal or municipally-guaranteed debentures, and Dominion of Canada guaranteed bonds.

The average rate of interest received on permanent investments in Schedule 1 during 1937 was approximately 4.60 per cent., as compared with 4.14 per cent. in 1936, and 4.75 per cent. received during 1935. A nominal one per cent. is received on current bank balances.

Schedule 2 Funds

The funds handled by the Board in respect of Schedule 2 industries include employers' deposits for pensions required to be made with the Board under the provisions of Section 28 of the Act, temporary deposits or advances of money made by employers under Section 32 to facilitate prompt payment of claims, and claimants' moneys held by the Board in cases of awards, payment of which by reason of the claimant being a minor or for other reason is deferred to a future time.

The standing of Schedule 2 Funds at December 31, 1937, is shown in the latter part of Table 9, and the particulars and a list of Schedule 2 investments are given in Table 14.

At the end of 1937 the deposits held under Section 28 amounted to $3,469,752.24; deposits under Section 32 to $46,397.22; and the amount of claimants' moneys held by the Board was $15,708.47; and $183,825.71 reserve for depreciation of securities, making a total of $3,715,683.64, of which $3,621,514.89 was held in permanent inestments and $94,168.75 cash in bank.

The rate of interest distributed to Schedule 2 Funds, including reserve for depreciation of securities, during 1937 was 4.74 per cent., as compared with 5.356 per cent. distributed during 1936, and 5.45 per cent. during 1935.

TABLE 9

STANDING SCHEDULE 1 ACCIDENT FUND AS AT DECEMBER 31, 1937

Assets		
Cash in Banks:		
Canadian Bank of Commerce	$ 438.45	
Royal Bank of Canada	6,272.95	
Dominion Bank	264,556.36	$271,267.76
Short Date Deposits		600,000.00
Investments		30,214,005.05
Due from Schedule 2 Employers for Administration Expenses paid out of Schedule 1 Funds		23,240.15
Due from Dominion of Canada for Administration Expenses paid out of Schedule 1 Funds		18,388.06
Due from Province of Ontario for Administration Expenses paid out of Schedule 1 Funds		9,804.05
Due from Rehabilitation Clinic for Administration Expenses paid out of Schedule 1 Funds		1,000.00
Assessments Estimated to be Due on Adjustment of 1937 Pay Rolls (see Table 1)		629,800.00
		$31,767,505.07

Liabilities		
Compensation Deferred, other than Pensions		$ 44,088.85
Pension Liability		22,275,818.13
Balance of Silicosis Account at Credit of Employers		1,879,877.04
Balance at Credit of Rehabilitation Clinic		3,300.74
Compensation Estimated Outstanding for 1937 Accidents		1,750,112.84
Medical Aid Estimated Outstanding for 1937 Accidents		472,080.63
Estimated to Complete Prior Years' Accidents		833,636.68
Assets in Excess of Liabilities:		
Disaster Reserve	$229,649.75	
Reserve for Depreciation of Securities	644,151.20	
Balance at Credit of Classes (see Table 1)	3,634,789.21	
		4,508,590.16
		$31,767,505.07

STANDING SCHEDULE 2 FUNDS AS AT DECEMBER 31, 1937

Assets	
Cash in Imperial Bank of Canada	$ 94,168.75
Investments	3,621,514.89
	$3,715,683.64

Liabilities	
Balance Employers' Deposits under Section 28	$3,469,752.24
Balance Employers' Deposits under Section 32	46,397.22
Claimants' Moneys held by Board	15,708.47
Reserve for Depreciation of Securities	183,825.71
	$3,715,683.64

TABLE 10

PENSION FUND, SCHEDULE 1 BY CLASSES, DECEMBER 31, 1937

Class	Balance Forward from 1936	Pension Awards during 1937	Interest Received	Pension Payments	Balance as at Dec. 31, 1937	Class
	$ c.	$ c.	$ c.	$ c.	$ c.	
1	1,931,672.89	187,492.90	96,751.12	180,793.82	2,035,123.09	1
2	1,042,000.84	71,815.50	51,595.41	92,000.78	1,073,410.97	2
3	275,508.76	7,312.00	13,324.39	25,353.58	270,791.57	3
4	651,547.65	41,645.30	31,919.32	67,967.64	657,144.63	4
5	3,392,149.92	*452,246.96	174,545.92	353,478.42	3,665,464.38	5
6	870,036.36	88,263.05	43,379.52	93,154.64	908,524.29	6
7	561,163.84	23,391.00	27,195.04	57,916.87	553,833.01	7
8	426,404.67	48,137.76	21,477.18	41,859.63	454,159.98	8
9	903,531.58	57,877.89	44,428.44	87,803.12	918,034.79	9
10	1,084,712.67	82,554.63	53,973.71	93,031.40	1,128,209.61	10
11	920,685.86	72,600.44	45,641.46	88,313.72	950,614.04	11
12	699,266.62	58,933.89	34,685.95	70,028.75	722,857.71	12
13	490,915.88	18,132.50	23,973.08	41,040.98	491,980.48	13
14	224,914.55	21,503.40	11,188.05	23,810.38	233,795.62	14
15	892,305.16	69,846.50	44,079.31	91,284.30	914,946.67	15
16	546,947.29	32,217.76	27,007.02	45,831.25	560,340.82	16
17	429,435.83	56,708.86	21,846.35	41,726.45	466,264.59	17
18	193,597.61	11,404.00	9,492.17	18,912.16	195,581.62	18
19	314,590.95	17,972.46	15,438.65	29,608.11	318,393.95	19
20	719,970.83	99,290.94	36,824.87	66,237.80	789,848.84	20
21	962,904.39	111,501.14	48,738.31	87,777.33	1,035,366.51	21
22	388,090.88	74,291.00	20,189.34	42,898.88	439,672.34	22
23	1,257,378.50	8,368.89	60,362.54	108,624.04	1,217,485.89	23
24	2,281,113.91	113,847.73	111,099.67	232,088.58	2,273,972.73	24
	21,460,847.44	1,827,356.50	1,069,156.82	2,081,542.63	22,275,818.13	

* Transferred from Silicosis Account, Class 5, $69,603.31.

TABLE 11

DISASTER RESERVE, DECEMBER 31, 1937

Balance in Fund as at December 31, 1936		$270,501.44
Interest credited in 1937		8,148.31
		$278,649.75
Withdrawn account Class 6	$45,000.00	
Withdrawn account Class 21	4,000.00	
		49,000.00
Balance as at December 31, 1937		$229,649.75

RESERVE FOR DEPRECIATION OF SECURITIES

Balance in Fund December 31, 1936	$509,218.81
Profit on sale of investments during 1937	208,217.46
Interest	264,789.46
	$982,225.73
Transferred to Investment Account	338,074.53
Balance as to December 31, 1937	$644,151.20

TABLE 12

COMPENSATION DEFERRED, DECEMBER 31, 1937

Balance in Fund, December 31, 1936		$ 36,967.17
Compensation awarded, payment deferred, during 1937		36,444.43
Interest credited in 1937		576.70
		$ 73,988.30
Paid Claimants during 1937:		
Principal	$28,963.61	
Interest	935.84	
		29,899.45
Balance as at December 31, 1937		$ 44,088.85

TABLE 13

SILICOSIS ACCOUNT, DECEMBER 31, 1937

Balance in Fund, December 31, 1936		$1,423,622.84
Assessments collected under Class 5		674,480.31
		$2,098,103.15
Payments made:		
Compensation	$126,254.28	
Medical Aid	16,476.14	
Salaries and Expenses	62,184.18	
To Accident Fund for Supervision	10,391.72	
Salaries and Expenses of Referee Board	2,919.79	
		218,226.11
Balance December 31, 1937		$1,879,877.04

TABLE 14

INVESTMENTS, DECEMBER 31, 1937

SCHEDULE 1

Book Value of Investments, January 1, 1937		$27,747,395.50
Invested during the year		6,466,763.46
		$34,214,158.96
Less Principal returned	$3,062,079.38	
Less amount written off for depreciation	338,074.53	
		3,400,153.91
BOOK VALUE OF INVESTMENTS, DECEMBER 31, 1937		$30,814,005.05

SCHEDULE 2

Book Value of Investments, January 1, 1937	$ 3,550,185.43
Invested during the year	262,776.05
	$ 3,812,961.48
Less Principal returned	191,446.59
BOOK VALUE OF INVESTMENTS, DECEMBER 31, 1937	$ 3,621,514.89

LIST OF INVESTMENTS

SCHEDULE 1 FUNDS

Municial Debentures

Security	Face Rate	Term	Par Value	Book Value
			$ c.	$ c.
Amherstburg	6%	Dec. 15, 1938	2,056.24	2,065.98
Belleville:	6%	May 15, 1941	65,000.00	64,499.45
	6%	Jan. 2, 1942	14,000.00	14,322.85
	6%	Apr. 5, 1942	13,000.00	13,333.17
	5½%	May 1, 1952	120,000.00	122,412.86
	4½%	1943-1954	156,000.00	149,100.23
	5%	1947-1949	20,000.00	19,524.30
	5%	1946-1960	147,388.05	137,745.94
	5%	1946-1950	17,856.38	16,776.48
	5%	1945-1959	24,545.76	22,948.44
Bowmanville	5%	1945-1949	41,035.25	40,188.62
Brampton	4½%	1938-1944	1,312.78	1,267.75
Brantford	4½%	Dec. 31, 1942	10,000.00	9,259.21
	5½%	1938-1939	12,500.00	12,378.04
	6%	1938-1947	50,200.00	50,255.35
	5%	1940-1949	53,000.00	51,321.43
	5½%	1941-1953	13,000.00	13,543.58
	4%	Dec. 31, 1950	5,000.00	4,526.23
Bridgeburg	5½%	1950-1956	13,403.01	14,214.36
Burlington	5%	1942-1951	10,843.18	11,008.24
Capreol	6%	1951-1958	18,000.00	18,395.58
Carleton Place	5½%	1938-1941	7,583.90	7,583.90
Collingwood (guar. by County of Simcoe)	5%	1947-1951	191,000.00	183,206.43
Dundas	5½%	1938-1946	11,958.67	12,012.32
East York:	5%	1940-1965	172,187.29	163,064.13
	5%	1940-1965	72,105.65	68,301.81
Essex, Village	5%	1933-1934	1,266.00	1,256.46
Essex Border Utilities Commission	5½%	1942-1956	199,989.88	200,333.79
Etobicoke, Twp.:	5½%	1946-1949	45,000.00	46,756.49
	5%	1940-1957	25,277.74	25,367.84
	5%	1941-1957	71,000.00	69,813.27
	5%	1940-1958	28,416.47	28,524.29
	5%	1937-1948	91,071.95	85,993.33
Fort Erie:	5½%	1945-1961	50,715.22	53,540.64
	5½%	1944-1961	23,621.00	24,736.19
Fort William:	5%	Feb. 1, 1944	25,000.00	23,998.41
	6%	May 1, 1950	10,000.00	9,658.06
	5%	Apr. 1, 1955	55,000.00	54,216.60
	5%	1946-1951	69,924.85	70,443.33
	5%	July 1, 1952	34,672.60	34,993.99
	5%	July 1, 1947	42,751.00	43,040.80
	5%	Jan. 1, 1957	30,000.00	31,122.68
	5%	Apr. 1, 1959	76,000.00	75,305.40
Fort William (Guaranteeing McKellar Hospital)	4½%	May 1, 1948	88,000.00	87,093.03
Forest Hill Village:	5%	1943-1957	44,730.93	44,572.81
	5%	1938-1939	3,452.11	3,438.18
	5%	1940-1959	121,602.70	115,034.96
Galt	5, 5½ & 6%	Dec. 6, 1961	19,284.69	18,515.91
	5½%	Dec. 1, 1962	68,400.36	71,253.20
	6%	Dec. 1, 1962	14,135.90	15,708.08
	5½%	Dec. 15, 1964	14,097.18	15,245.20
	5½%	July 2, 1965	35,254.75	37,599.15

TABLE 14—Continued

Municipal Debentures—Continued

Security	Face Rate	Term	Par Value	Book Value
			$ c.	$ c.
Glencoe:	5½%	1938-1940	4,063.68	3,970.63
	5½%	May 1, 1959	70,000.00	71,514.79
Guelph:	5½%	1940-1944	13,287.11	13,018.66
	4%	Dec. 31, 1953	46,441.00	40,657.03
Hamilton:	5%	1944-1945	21,000.00	20,105.00
	4½%	1944-1945	37,000.00	34,525.23
	4½%	1942-1945	67,000.00	65,155.24
	4½%	1943-1947	31,000.00	30,028.31
	5%	1947-1949	54,000.00	53,721.77
	5%	1947-1949	104,000.00	103,464.65
	5%	1947-1949	6,000.00	5,969.56
	5%	1947-1949	2,000.00	1,989.85
	4½%	1946-1948	19,000.00	18,189.05
	4½%	1946-1949	42,000.00	40,196.47
	4½%	1946-1948	47,000.00	45,007.68
	4½%	1946-1948	55,000.00	52,574.28
	4½%	1946-1948	32,000.00	30,587.31
	4½%	1946-1948	9,000.00	8,603.66
	4½%	1946-1948	16,000.00	15,293.97
	4½%	1946-1949	82,000.00	78,377.69
	4½%	1946-1949	51,000.00	48,745.66
	5%	Jan. 2, 1945	43,000.00	42,872.67
	5%	Feb. 1, 1945	26,000.00	25,922.87
	5%	Apr. 1, 1945	16,000.00	15,952.60
	5%	June 1, 1945	55,000.00	54,837.13
	5%	May 1, 1945	32,000.00	31,905.22
	6%	1943-1952	170,000.00	169,838.05
	6%	Apr. 1, 1950	26,000.00	27,044.18
	6%	Apr. 1, 1952	17,000.00	17,723.24
	4½%	Feb. 1, 1945	50,000.00	48,302.07
	5%	1959-1963	50.000.00	50,345.48
	5%	Apr. 1, 1945	3,000.00	2,963.10
	4½%	Feb. 1, 1944	4,000.00	3,847.20
	5%	1950 & 1951	28,000.00	27,506.06
	5%	1952 & 1953	100,000.00	98,097.63
	5%	Apr. 1, 1951	22,000.00	21,608.07
Hanover	5½%	1945-1959	65,703.97	66,915.80
Hawkesbury	6%	1933-1940	51,432.34	48,982.22
Kenora	5%	1938-1956	49,300.00	48,000.06
Kingston:	6%	1938-1948	3,400.00	3,387.67
	6%	1943-1945	16,300.00	16,199.22
Kingsville	6½%	1934-1941	33,155.59	33,024.27
Kitchener:	5½%	1943-1951	47,682.18	48,559.21
	5½%	1943-1952	28,490.33	29,027.43
	5½%	1938-1946	624.87	618.16
Leaside:	5½%	1938-1949	81,000.00	78,695.63
	4½%	1938-1957	30,026.57	30,122.82
Listowel	5½%	1938-1947	10,371.90	10,187.84
London:	5%	1943-1945	12,000.00	12,029.95
	5%	1946-1950	58,000.00	58,827.32
Midland (Guaranteed by County of Simcoe):	5½%	1940-1947	14,339.86	14,957.36
	5½%	1940-1944	10,720.05	11,126.80
	5%	1940-1947	36,422.68	36,516.27
	5%	1940-1957	47,160.21	47,305.06
Mimicoe:	5½%	1935-1960	62,940.45	62,103.45
	5%	1935-1950	36,525.33	34,673.72
	5½%	1933-1961	46,134.66	48,226.05
Mount Forest	5%	1945-1948	26,183.59	25,797.64

TABLE 14—Continued
Municipal Debentures—Continued

Security	Face Rate	Term	Par Value	Book Value
			$ c.	$ c.
Napanee	5%	1941-1943	14,623.28	14,740.75
Niagara Falls:	5%	1938-1945	50,548.31	47,908.31
	6%	1934-1941	59,553.78	59,176.64
	5½%	1940-1953	54,098.50	54,848.36
	5%	1938-1952	16,139.50	15,815.11
North Bay:	5%	1938-1942	1,788.66	1,763.01
	6%	1938-1942	65,341.30	65,873.66
	5%	1938-1947	37,112.49	37,567.18
	5½%	1939-1948	152,370.42	155,820.74
	4½%	1938-1943	15,368.61	15,245.44
Northumberland & Durham, United Counties of	5%	1941-1948	27,358.70	26,842.90
North York, Twp.:	5½%	1940-1941	8,500.00	8,736.55
	5½%	1940-1944	17,866.71	18,483.51
	5½%	1940-1943	25,811.14	26,654.63
	5½%	1943-1957	36,885.12	39,142.36
	5%	1940-1948	47,687.13	48,587.88
	5½%	1940-1958	24,469.63	26,132.22
Orillia (Guaranteed by County of Simcoe)	5%	1941-1954	17,156.14	17,220.14
Oshawa:	6%	1945-1951	45,133.48	43,767.42
	5%	June 1, 1938	6,068.02	6,045.88
	5%	1939-1943	78,000.00	77,102.15
	5½%	1945-1949	100,000.00	98,864.80
Ottawa:	6%	July 1, 1951	15,000.00	16,538.61
	5½%	1951 & 1961	226,000.00	225,605.77
	5½%	July 1, 1961	114,000.00	113,403.04
	5½%	July 1, 1961	46,000.00	45,860.96
Parry Sound:	6%	1938-1944	5,458.04	5,381.20
	6%	1938-1950	48,235.30	45,173.92
Pembroke	5%	1946-1954	75,025.53	75,025.53
Perth:	5%	1940-1947	52,000.00	52,142.21
	5%	1940-1948	91,000.00	92,140.52
	5%	1945-1950	21,000.00	20,840.62
Peterborough	4½%	June 30, 1951	50,000.00	43,759.20
Port Arthur:	5%	June 1, 1959	50,000.00	48,715.95
	5½%	June 1, 1948	53,000.00	49,453.81
Port Arthur (Guaranteeing General Hospital):	5½%	Nov. 1, 1955	100,000.00	104,371.27
	5½%	Oct. 1, 1954	40,000.00	41,573.15
Renfrew:	6%	1938-1947	4,981.24	5,017.99
	5%	1947-1958	55,034.42	55,338.19
Richmond Hill	5½%	1938-1944	3,910.22	3,910.22
St. Marys:	5%	Oct. 31, 1943	4,870.30	4,754.98
	5%	Jan. 1, 1944	2,500.00	2,437.33
St. Thomas	6%	1949-1951	44,646.59	43,218.50
Sandwich West, Twp.	6%	1938-1948	80,272.18	85,913.94
Sarnia:	5½%	Dec. 31, 1939	965.84	946.42
	5%	1942-1947	62,914.68	62,065.18
Sault Ste. Marie:	6%	Mar. 25, 1949	24,771.50	25,812.62
	5½%	Apr. 1, 1950	45,000.00	41,532.61
	5½%	Jan. 20, 1945	6,000.00	6,149.18
	5½%	Jan. 20, 1945	4,000.00	4,061.34
	5½%	1938-1942	28,500.00	28,649.83
	5%	June 1, 1949	3,900.00	3,816.61
	5½%	Dec. 15, 1949	5,000.00	5,110.25
Scarborough, Twp.:	5%	1940-1943	25,000.00	25,515.23
	5%	1942-1958	75,474.03	72,308.64
	5%	1933-1940	25,689.23	25,341.22
Simcoe, Twp.	6%	1938-1945	3,744.41	3,818.13
Sioux Lookout	6%	1944-1947	4,000.00	4,000.00
Smith's Falls:	5½%	1938-1944	2,436.10	2,436.10
	6%	1938-1946	9,388.61	9,596.24
	5½%	1938-1947	8,082.81	7,974.78

TABLE 14—Continued

Municipal Debentures—Continued

Security	Face Rate	Term	Par Value	Book Value
			$ c.	$ c.
Smith's Falls	5%	1940-1945	64,306.49	64,242.61
	5%	1944-1946	54,000.00	54,000.00
Stratford:	5%	Jan. 1, 1945	25,000.00	24,289.20
	5%	Jan. 1, 1945	15,000.00	14,574.61
	5%	Jan. 1, 1945	10,000.00	9,715.68
	5%	Jan. 1, 1945	13,000.00	12,533.02
	6%	Jan. 1, 1951	40,000.00	39,110.47
	6%	Jan. 1, 1942	124,000.00	126,644.25
	5½%	Jan. 1, 1942	50,000.00	50,178.32
	5½%	Jan. 1, 1952	13,000.00	13,121.00
	5%	June 15, 1940	7,000.00	7,009.60
	5%	June 15, 1955	30,000.00	30,179.76
	5%	Jan. 1, 1945	2,000.00	2,009.87
Sudbury	5%	1940-1949	49,943.48	48,446.51
	5%	1945-1948	66,235.66	65,980.57
	4½%	1939-1948	16,000.00	16,000.00
Thorold	5%	Aug. 15, 1958	3,000.00	2,945.55
Tillsonburg:	5½%	Mar. 20, 1945	975.00	975.00
	5½%	1938-1944	586.52	586.52
Toronto:	4½%	July 1, 1948	4,000.00	3,517.37
	4½%	Jan. 1, 1955	19,000.00	15,952.21
	6%	1945-1949	39,000.00	39,000.00
	5½%	1945-1947	11,000.00	10,635.89
	6%	1943-1951	48,000.00	48,000.00
	5½%	1940-1951	41,000.00	41,692.15
	5%	Apr. 1, 1951	50,000.00	48,798.45
	6%	1945-1951	9,000.00	9,664.04
	5%	July 1, 1950	20,000.00	20,139.12
	5%	Apr. 1, 1950	25,000.00	25,173.89
	4½%	July 1, 1944	10,000.00	9,581.06
	4½%	June 1, 1946	7,000.00	6,783.58
	4½%	1944 & 1945	12,000.00	11,680.68
	4½%	1944-1948	26,000.00	25,263.39
	5%	1947 & 1951	61,000.00	61,263.90
	5½%	Mar. 1, 1949	2,000.00	2,104.54
	6%	June 1, 1950	10,000.00	11,098.34
	5½%	1946-1958	53,000.00	53,846.81
	5½%	Apr. 1, 1957	25,000.00	24,560.22
	5½%	1944-1947	35,000.00	34,578.60
	5½%	1958-1962	125,000.00	123,115.36
	5½%	1943-1944	17,000.00	16,827.22
	5½%	1945-1952	27,000.00	25,851.08
	5%	July 1, 1946	30,000.00	29,973.69
	5½%	Apr. 1, 1952	5,000.00	5,203.18
Toronto:	5½%	1950 & 1951	15,000.00	15,599.41
	5½%	Apr. 1, 1951	11,000.00	11,480.22
	4½%	Aug. 1, 1951	28,000.00	25,959.84
	6%	1946-1951	20,000.00	21,656.89
	6%	July 1, 1951	10,000.00	10,025.87
	6%	1943-1945	40,000.00	38,594.63
Toronto Harbour Commission Guaranteed by City of Toronto)	4½%	Sept. 1, 1953	14,000.00	13,085.86
Toronto, Twp.	5½%	1941-1952	18,104.29	18,901.47
Trenton	5½%	1942-1943	25,000.00	25,596.43
Welland, County	5%	Dec. 15, 1945	10,000.00	9,758.60
Weston	6%	1949-1952	24,949.65	27,714.01
West Gwillimbury (Guaranteed by County of Simcoe)	5½%	1942-1956	36,107.36	36,233.38
Wheatley	5½%	1951-1960	22,892.29	23,563.91

TABLE 14—Continued

Municipal Debentures—Continued

Security	Face Rate	Term	Par Value	Book Value
			$ c.	$ c.
Whitby:	5½%	1938-1946	7,395.30	7,436.10
	5½%	1938-1946	2,678.75	2,694.27
	5½%	1938-1946	3,348.47	3,378.08
Windsor:	4%	Dec. 31, 1975	162,300.66	171,568.17
	4%	Dec. 31, 1975	145,738.15	151,410.12
	3¼%	Dec. 31, 1975	604,238.79	572,625.70
	2%	Dec. 31, 1975	145,738.17	99,989.05
	1½%	Dec. 31, 1975	598,654.36	348,087.06
York Twp.:	5%	1941-1946	100,000.00	100,298.01
	6%	1941-1951	102,407.13	105,792.73
	5%	1949-1956	225,000.00	214,721.81
	5%	1942-1946	195,000.00	195,313.67
	5%	1945-1956	110,295.98	103,061.14
	5%	1945-1955	22,000.00	22,000.00
	5%	Feb. 1, 1952	25,000.00	25,437.71
	5½%	1941-1949	20,731.26	21,845.28
	6%	1941-1952	8,679.27	9,515.22
	6%	1941-1952	27,659.28	30,387.50
	5%	1945-1958	74,000.00	73,284.00
York Twp. (Guaranteed by County of York):	5%	1951-1956	93,000.00	89,013.28
	5%	1946-1957	21,000.00	21,106.65
			11,454,996.12	11,046,599.09

Other Permanent Investments—Continued

Security	Face Rate	Term	Par Value	Book Value
Canadian National Railways (Guaranteed by Dominion of Canada):	5%	Feb. 1, 1954	100,000.00	104,125.31
			50,000.00	52,000.57
			80,00000	77,271.36
			36,000.00	34,630.42
			121,000.00	117,972.47
			247,000.00	241,828.64
			50,000.00	51,766.73
			23,000.00	23,828.31
			50,000.00	52,000.57
			50,000.00	51,849.37
			60,000.00	62,219.22
			25,000.00	25,952.48
			90,000.00	93,344.96
			463,000.00	453,298.53
			40,000.00	35,478.43
			115,000.00	132,964.77
			43,000.00	49,767.41
			100,000.00	116,437.95
			40,000.00	46,761.71
			25,000.00	28,487.32
			50,000.00	56,955.12
			25,000.00	28,365.04
			90,000.00	103,433.43
			50,000.00	58,568.49
			50,000.00	58,723.29
			40,000.00	46,936.99
			32,000.00	37,755.62
	4¾%	June 15, 1955	22,000.00	25,341.68
	4½%	July 1, 1957	100,000.00	111,004.99
			75,000.00	83,079.05
			100,000.00	111,004.95
			100,000.00	110,888.48

TABLE 14—Continued

Other Permanent Investments—Continued

Security	Face Rate	Term	Par Value	Book Value
			$ c.	$ c.
Canadian National Railways (Guaranteed by Dominion of Canada):	5%	July 1, 1957	100,000.00	111,121.42
			250,000.00	278,385.50
			60,000.00	67,021.97
			100,000.00	112,168.65
			120,000.00	135,330.63
			65,000.00	73,211.85
			75,000.00	83,692.85
			244,000.00	275,169.83
			52,000.00	59,302.59
			100,000.00	115,588.20
			117,000.00	133,771.48
			25,000.00	28,802.31
			30,000.00	33,732.47
			15,000.00	16,595.21
			50,000.00	56,510.08
			25,000.00	28,316.16
			50,000.00	56,264.80
			32,000.00	36,009.47
			23,000.00	25,994.65
			40,000.00	45,473.56
Dominion of Canada:	4½%	Nov. 1, 1948/58	465,000.00	496,321.19
			30,000.00	32,435.03
			100,000.00	108,525.00
			50,000.00	54,370.97
			200,000.00	217,396.95
	4½%	Nov. 1, 1949/59	100,000.00	109,077.18
			135,000.00	151,996.12
			59,000.00	66,592.88
Province of Ontario:	5½%	July 1, 1946	250,000.00	240,165.05
			100,000.00	96,776.83
			115,000.00	114,039.29
			15,000.00	16,607.84
			200,000.00	221,035.47
			25,000.00	27,637.49
			461,000.00	446,218.71
			34,000.00	37,969.11
	4½%	Dec. 1, 1947	13,000.00	12,132.38
	5½%	Feb. 1, 1947	125,000.00	120,431.24
			226,000.00	226,644.75
			145,000.00	146,097.51
			116,000.00	116,612.79
			10,000.00	9,729.93
			100,000.00	99,677.08
			10,000.00	11,140.50
			62,000.00	69,196.56
			35,000.00	39,011.33
			91,500.00	95,045.63
			50,000.00	53,445.56
			150,000.00	168,900.08
			25,000.00	28,044.51
			25,000.00	28,709.51
	5%	Oct. 15, 1948	250,000.00	246,312.05
			50,000.00	50,530.26
			60,000.00	60,632.76
			25,000.00	25,271.98
			50,000.00	50,527.56
			50,000.00	50,938.68
			50,000.00	49,021.61
			50,000.00	56,798.17

TABLE 14—Continued

Other Permanent Investments—Continued

Security	Face Rate	Term	Par Value	Book Value
			$ c.	$ c.
Province of Ontario:	5%	Oct. 15, 1948	79,000.00	89,649.29
			50,000.00	55,783.71
	4½%	Jan. 16, 1949	207,000.00	188,282.34
			158,000.00	144,373.76
			25,000.00	26,351.75
			83,000.00	79,417.72
			74,000.00	79,435.95
	4½%	Dec. 1, 1949	300,000.00	274,923.61
	4½%	June 1, 1950	50,000.00	52,693.82
			290,000.00	319,148.68
			100,000.00	108,004.14
			135,000.00	145,730.74
			40,000.00	43,145.25
	4½%	Dec. 1, 1950	700,000.00	638,678.93
	5%	Apr. 1, 1952	100,000.00	116,397.86
	4½%	May 15, 1954	10,000.00	10,910.74
	3%	Jan. 15, 1955	50,000.00	46,128.93
	3%	Jan. 15, 1958	500,000.00	497,543.04
	3%	Jan. 15, 1959	500,000.00	497,540.40
	4½%	Jan. 15, 1959	30,000.00	33,066.63
	4½%	Jan. 15, 1959	20,000.00	22,966.57
	4½%	Jan. 15, 1956	500,000.00	478,112.03
	4½%	May 15, 1957	10,000.00	11,104.35
	5%	May 1, 1959	250,000.00	249,469.45
	5%	May 1, 1959	100,000.00	119,778.32
	4%	1960-1966	44,000.00	45,639.31
	4%	1960-1971	318,000.00	343,770.21
	4%	1960-1968	156,000.00	168,315.20
	5%	Dec. 2, 1960	30,000.00	35,413.82
	4½%	Jan. 15, 1961	50,000.00	58,404.51
	4½%	May 15, 1961	29,000.00	33,447.73
	4½%	May 15, 1961	25,000.00	28,638.37
	4½%	Jan. 15, 1962	75,000.00	87,950.12
	4%	May 15, 1962	50,000.00	52,892.74
	4%	1962-1968	6,000.00	6,402.75
	4%	1962-1970	106,000.00	113,075.61
	4%	1962-1967	296,000.00	315,720.01
	4½%	May 15, 1962	25,000.00	29,217.09
	4%	1963-1964	40,000.00	41,538.28
	4%	Jan. 1, 1963	32,000.00	33,039.29
	4½%	Jan. 15, 1963	125,000.00	146,032.53
	4½%	Jan. 15, 1965	75,000.00	87,802.07
	4½%	Jan. 15, 1965	19,000.00	22,116.54
	4½%	May 15, 1967	25,000.00	27,615.89
	4%	June 1, 1967	100,000.00	107,781.58
	4%	May 15, 1968	40,000.00	42,338.96
	4½%	May 15, 1968	50,000.00	58,669.65
	4½%	May 15, 1969	75,000.00	88,443.47
	4½%	Jan. 15, 1970	101,000.00	119,413.58
	4½%	Jan. 15, 1970	25,000.00	27,915.15
	4½%	Jan. 15, 1970	100,000.00	116,771.23
	4½%	Jan. 15, 1970	25,000.00	29,557.30
	4½%	May 15, 1970	10,000.00	11,855.27
	4½%	Jan. 15, 1971	25,000.00	28,425.38
	4½%	Jan. 15, 1971	25,000.00	27,730.32
Province of Ontario guaranteed:				
Blind River, Town of	4½%	1938-1948	26,226.83	25,949.83
Englehart, Town of	6%	1945-1954	20,388.11	21,513.05
Hydro Electric Power Commission:	5%	July 1, 1945	78,000.00	71,921.71

TABLE 14—Continued

Other Permanent Investments—Continued

Security	Face Rate	Term	Par Value	Book Value
			$ c.	$ c.
Hydro Electric Power Com.	5%	July 15, 1946	50,000.00	46,907.30
	5%	July 15, 1946	50,000.00	46,084.41
	4%	Aug. 1, 1957	15,000.00	15,523.75
	4%	Aug. 1, 1957	25,000.00	25,872.91
	4½%	Apr. 1, 1960	20,000.00	21,466.19
	4½%	Apr. 1, 1960	50,000.00	53,665.40
	4½%	Apr. 1, 1960	24,000.00	26,133.29
	4½%	Apr. 1, 1960	22,000.00	24,113.61
	4½%	Apr. 1, 1960	22,000.00	25,035.16
	6%	July 1, 1961	120,000.00	156,339.30
	6%	July 1, 1961	25,000.00	33,263.22
	6%	July 1, 1961	100,000.00	128,041.90
	4¾%	Jan. 1, 1970	25,000.00	22,713.06
			41,000.00	45,978.37
			46,000.00	51,696.87
			154,000.00	173,202.12
			105,000.00	125,942.68
			13,000.00	15,539.12
			57,000.00	68,549.01
			66,000.00	79,452.69
			50,000.00	60,191.47
			33,000.00	39,886.79
			75,000.00	90,502.52
			38,500.00	46,534.18
			10,000.00	11,783.08
			49,000.00	57,781.19
			100,000.00	117,829.74
			63,000.00	74,693.19
			95,000.00	91,222.22
			60,000.00	69,276.09
			18,500.00	21,164.70
			35,000.00	40,060.24
			100,000.00	117,485.48
			50,000.00	58,680.78
			125,000.00	146,701.96
			50,000.00	58,433.07
			50,000.00	58,371.15
			38,000.00	44,173.75
Sandwich, Windsor & Amherstburg Railway:	4½%	June 1, 1943	49,000.00	46,089.52
			25,000.00	25,924.08
Sturgeon Falls, Twn. of	6%	1946-1952	40,092.65	50,307.61
Teck, Twp. of	4½%	1943-1944	15,383.26	16,141.60
Temiskaming & Northern Ontario Railway:	4%	1951-1952	269,000.00	275,548.27
		1935-1957	160,000.00	169,844.44
		Feb. 1, 1956	70,000.00	73,150.57
		Feb. 1, 1959	145,000.00	122,555.07
		1958-1967	112,000.00	118,655.51
		Feb. 1, 1963	33,000.00	34,792.16
		1967-1968	55,000.00	58,181.60
		1960-1965	31,000.00	32,719.64
		Feb. 1, 1967	100,000.00	105,732.27
		Feb. 1, 1967	35,000.00	38,203.45
Tisdale, Twp. of:	4%	1943-1945	42,767.95	43,956.90
	6%	1943-1944	14,226.05	15,241.72
	6%	1943-1944	6,713.43	7,193.18
University of Western Ontario	4½%	1942-1946	54,000.00	50,394.97
			18,137,298.28	19,167,405.96
TOTAL PERMANENT INVESTMENTS, SCHEDULE 1			29,592,294.40	30,214,005.05

TABLE 14—Continued

SCHEDULE 2 FUNDS

Municipal Debentures

Security	Face Rate	Term	Par Value	Book Value
			$ c.	$ c.
Barton, Twp.	5½%	July 14, 1952	63,000.00	63,942.75
Belleville:	5%	1943-1945	3,450.26	3,326.24
	5%	1943-1950	8,000.00	7,646.66
	5%	1940-1946	10,488.47	10,139.41
Brantford	4%	Dec. 31, 1949	15,000.00	13,141.01
Chippawa, Twn. (Guaranteed by County of Welland)	5½%	1941-1944	22,578.30	22,550.02
Cornwall	5½%	1941-1943	10,248.45	10,228.12
Etobicoke, Twp.:	5%	1941-1955	24,867.79	23,904.73
	5%	1941-1956	32,574.89	32,422.23
	5½%	1942-1956	58,470.29	60,590.41
	5%	1948-1955	43,000.00	40,842.01
Galt	5%	Dec. 15, 1965	19,460.45	18,501.43
Hamilton:	4½%	1942-1946	152,000.00	142,200.11
	4½%	1942-1946	134,000.00	126,457.37
	5%	1942-1946	35,000.00	34,138.40
Kingston	5%	July 1, 1955	70,000.00	66,450.89
Kitchener	6%	1944-1947	10,418.06	10,793.52
London:	5%	Dec. 30, 1954	411,000.00	390,943.98
	5%	1943-1956	241,000.00	234,488.00
	5%	1943-1955	63,000.00	61,869.00
North Bay	5½%	1940-1943	33,000.00	32,594.27
Ottawa	5%	1945-1946	10,000.00	9,625.92
Peterborough	5%	Dec. 31, 1945	20,000.00	19,348.31
Renfrew, Twn.	5½%	1949-1953	50,234,63	50,729.41
Stamford, Twp.	5½%	1941-1954	246,628.19	247,487.17
Stratford:	5.30%	July 1, 1954	82,000.00	82,892.65
	5%	1940-1956	122,613.19	118,344.41
Thorold	5%	1940-1959	49,546.82	46,910.51
Toronto:	6%	June 1, 1940	4,000.00	3,977.62
	5%	1950-1951	50,000.00	48,814.64
	4½%	Jan. 1, 1949	5,000.00	4,594.71
	5%	July 1, 1950	4,000.00	3,840.04
Victoria, County	5%	1951-1959	17,954.20	16,912.15
Waterloo, Twn.	5½%	1941-1947	19,195.72	19,015.32
York, Twp.	5%	1944-1961	214,197.93	198,768.86
			2,355,927.64	2,278,432.28

TABLE 14—Continued

SCHEDULE 2 FUNDS

Other Permanent Investments

Security	Face Rate	Term	Par Value	Book Value
			$ c.	$ c.
Canadian National Railways (Guaranteed by Dominion of Canada):	5%	Feb. 1, 1954	50,000.00	46,740.58
	5%	Feb. 1, 1954	50,000.00	58,503.95
	4½%	July 1, 1957	60,000.00	67,659.25
Dominion of Canada:	4½%	Nov. 1, 1948/58	50,000.00	54,058.52
	4½%	Nov. 1, 1949/59	562,000.00	631,345.74
Hydro Electric Power Comm'n (Guraranteed by Province of Ontario):	4½%	Apr. 1, 1960	50,000.00	56,074.48
	6%	July 1, 1961	28,000.00	35,718.94
	4¾%	Jan. 1, 1970	63,000.00	73,937.80
Province of Ontario:	5%	Oct. 1, 1942	31,000.00	30,301.68
	5%	Oct. 15, 1948	50,000.00	50,528.80
	5%	Apr. 1, 1952	19,000.00	18,290.55
	5%	Dec. 2, 1960	100,000.00	121,653.74
	4½%	May 15, 1970	7,000.00	8,030.40
	4%	1970-1971	20,000.00	21,747.42
	4%	June 1, 1971	30,000.00	32,325.17
Temiskaming & Northern Ontario Railway (Guaranteed by Province of Ontario)	4%	1960-1966	35,000.00	35,865.59
			1,205,000.00	1,343,082.61
TOTAL PERMANENT INVESTMENTS, SCHEDULE 2			3,560,927.64	3,621,514.89

SHORT DATE DEPOSITS, SCHEDULE 1

Province of Ontario Savings Bank	1½%	$600,000.

CHAPTER V

1936 OPERATIONS

This chapter deals with the year 1936, containing information which was not available when the report for that year was made.

It gives the final financial statement for Schedule 1 industries for the year, estimates of the adjustments of assessments and of the outstanding compensation and medical aid having to be used in the provisional statement given in Table 1 of the 1936 report; and it gives statistical information as to the accidents which happened during 1936, their causes, the nature of the injuries suffered, the number, time loss, total and average cost of the different classes of cases, and the age, wage, nationality, and marital condition of the injured workmen.

This information is contained in Tables 15 to 27.

Final Financial Statement, Schedule1,1936

Table 15 gives the final financial statement for Schedule 1 industries for 1936, provisional figures for which were given in Table 1 of the 1936 report. It shows the income and credits and the expenditures and charges and the balance for each class of industry; also the actual assessments and accident cost and other items of income and expenditure for each class, and the assessments and accident cost for each group of industry within the class. The list of industries included in each class and group will be found in the Board's rate book, the list of industries in the different classes is also printed with the Act, and their general nature is indicated at the bottom of Table 1 of this report.

The net income and credits for all the classes for the year were $6,169,560.37, and the net expenditures and charges, $5,021,592.11, leaving a surplus for the year of $1,147,968.26. Adding the surplus forward for prior years, $2,090,119.60, leaves a net actual surplus of $3,238,087.86, as compared with a provisional or estimated surplus of $2,089,059.16, the disparity being largely due to claims for accidents occuring in 1936 and prior years not being finally disposed of in 1937.

Assessment and Accident Cost

The assessments and accident cost (the latter comprising compensation and medical aid and payments on account of rehabilitation but not including payments from the Silicosis Account) in Schedule 1 for each year since the commencement of the Act, and the totals to the end of 1936 are as follows:

Year	Assessment	Accident Cost
1915	$ 1,831,537.52	$ 1,091,020.43
1916	2,361,463.20	1,880,004.37
1917	2,662,383.29	2,639,560.56
1918	3,303,575.83	3,214,427.57
1919	3,840,949.07	4,474,847.38
1920	5,579,333.45	5,041,947.30
1921	4,594,452.37	4,277,034.67
1922	3,984,594.64	4,323,801.07
1923	3,771,321.09	4,977,331.82
1924	4,524,700.86	4,746,314.60
1925	4,390,854.75	4,438,802.13
1926	5,167,126.64	4,711,970.90
1927	5,465,763.17	5,082,073.61
1928	6,739,696.80	6,083,772.14
1929	7,505,431.10	6,861,274.51
1930	6,396,105.73	5,925,502.17
1931	4,608,677.15	4,472,209.18
1932	3,292,309.25	3,177,386.47
1933	2,729,936.41	2,795,085.82
1934	4,192,200.35	3,904,134.13
1935	5,254,667.17	4,386,477.31
1936	6,075,763.79	4,543,669.26
Totals	$98,272,843.63	$93,048,647.40

Pay Roll and Rates of Assessment

As assessments are in the form of a percentage of pay roll, the average rate paid by the employers in Schedule 1 can be determined by dividing the total assessments for the year by the total pay roll. The following table shows the total amount of pay roll and the total assessments and the average rate for $100 pay roll for each year:

Year	Total Pay Roll	Total Assessments	Average Rate per $100
1915	$147,603,000	$1,831,537.52	$1.24
1916	220,840,000	2,361,463.20	1.07
1917	286,903,000	2,662,383.29	.93
1918	310,450,000	3,303,575.83	1.06
1919	325,226,000	3,840,949.07	1.18
1920	464,589,000	5,579,333.45	1.20
1921	355,259,000	4,594,452.37	1.29
1922	391,888,000	3,984,594.64	1.02
1923	434,163,000	3,771,321.09	.87
1924	386,318,000	4,524,700.86	1.17
1925	390,652,000	4,390,854.75	1.04
1926	424,926,000	5,167,126.64	1.22
1927	455,016,000	5,465,763.17	1.20
1928	504,102,000	6,739,696.80	1.34
1929	559,429,000	7,505,431.10	1.34
1930	472,742,000	6,396,105.73	1.35
1931	389.740,000	4,608,677.15	1.18
1932	317,605,000	3,292,309.25	1.04
1933	288,917,000	2,729,936.41	.94
1934	346,735,000	4,192,200.35	1.21
1935	386,782,000	5,254,667.17	1.36
1936	410,792,000	6,075,763.79	1.48

Final Accident Figures, 1936

Table 16 shows the number of accidents happening in 1936 (in all industries under the Act) for which payment of compensation or medical aid was made. The total number was 54,147 of which 272 were death cases, 835 involving some degree of permanent disability, 22,954 temporary disability cases and 30,086 cases which involved medical aid only. Ordinarily Schedule 2 cases involving medical aid only are not included, as in these cases medical aid is furnished directly by the employer.

The complete figures for each year since the commencement of the Act are as follows:

Year	Medical Aid Only	Temporary Disability	Permanent Disability	Death	Totals
1915	*	9,311	1,339	296	10,946
1916	*	15,993	2,232	373	18,598
1917	†4,267	21,556	2,475	370	28,668
1918	12,822	24,089	2,624	366	39,901
1919	11,769	22,418	2,457	364	37,008
1920	15,566	27,423	2,735	373	46,097
1921	12,141	22,855	2,079	331	37,406
1922	15,913	24,461	2,082	325	42,781
1923	20,125	28,954	2,340	327	51,746
1924	20,811	25,980	2,191	315	49,297
1925	22,444	26,040	2,157	264	50,905
1926	25,330	27,150	2,421	308	55,209
1927	27,852	28,836	2,476	311	59,475
1928	31,688	30,440	2,926	414	65,468
1929	34,582	32,920	3,372	417	71,291
1930	29,189	25,613	3,147	394	58,343
1931	21,970	20,543	2,495	231	45,239
1932	17,320	15,466	1,805	167	34,758
1933	17,258	14,235	1,511	159	33,163
1934	24,552	22,020	1,790	211	48,573
1935	27,904	23,024	992	208	52.128
1936	30,086	22,954	835	272	54,147
Totals	423,589	512,281	48,481	6,796	991,147

* No Medical Aid. † Half Year Only.

Accident Frequencies, Schedule 1

Comparison of accident frequencies can be made by correlating the number of accidents with the total number of full-year workers, data for this being available, however, only in Schedule 1. Eliminating accidents in which medical aid only was paid, the number of accidents for each 100 full-year workers for the different years are:

Year	Temporary Disability	Permanent Disability	Death	Totals
1915	3.63	.58	.12	4.32
1916	4.99	.79	.10	5.88
1917	5.78	.72	.07	6.57
1918	5.81	.66	.07	6.54
1919	5.81	.68	.07	6.56
1920	6.23	.67	.07	6.97
1921	6.25	.60	.05	6.90
1922	5.82	.52	.06	6.40
1923	6.02	.51	.05	6.58
1924	6.08	.54	.06	6.68
1925	5.94	.51	.05	6.50
1926	5.84	.54	.05	6.43
1927	5.94	.53	.05	6.52
1928	5.85	.58	.07	6.50
1929	5.80	.61	.06	6.47
1930	5.08	.66	.07	5.81
1931	4.28	.56	.04	4.88
1932	3.59	.45	.03	4.07
1933	3.22	.37	.03	3.62
1934	3.94	.37	.04	4.35
1935	4.18	.19	.04	4.41
1936	4.31	.16	.04	4.51

On the same basis of calculation, the frequency of medical aid only cases has been: 1918, 3.66; 1919, 3.70; 1920, 4.26; 1921, 4.24; 1922, 4.67; 1923, 4.96; 1924, 5.84; 1925, 6.09; 1926, 6.37; 1927, 6.73; 1928, 7.09; 1929, 7.06; 1930, 6.84; 1931, 5.72; 1932. 5.06; 1933, 4.94; 1934, 5.65; 1935, 6.16; 1936, 6.55.

Statistical Distributions

Tables 17 to 27 give statistical details regarding accidents and workmen, including, where the data is available, Schedule 2 and Crown cases as well as Schedule 1. Considerations of space preclude more extensive tabulations, but the original material is retained and still fuller information is always available concerning the accidents in any of the different classes of industry.

Month of Occurrence

Table 17 gives the month of occurrence of all accidents. The month in which the greatest number occurred during 1936 was July, with 5,163, and the month with the lowest number was April, with 3,832.

Accidents According to Locality

The distribution of accidents according to the county or district in which they occurred is contained in Table 18. York had the highest number, with 12,819; and next in order were: Temiskaming, with 5,017; Essex, with 3,140; Wentworth, with 3,099; and Thunder Bay, with 2,650. The greatest number of deaths (46) were in Temiskaming: there were 32 in York; 21 in Sudbury; 17 in Thunder Bay; and 11 each in Kenora and Wentworth.

Time Lost, Age, and Wage

In Table 19 are given the average age and wage of workmen receiving compensation, and the total and average time loss for each class of industry, and for each category of disability. The average age for 1936 was 35.82 years. The average wage for 1936 was $18.82, as compared with $17.60 for 1935, and $16.86 for 1934. The total time loss in temporary disability cases was 631,804 days, or an average of 27.52 days, as compared with an average of 29.86 days in 1935, and 25.95 days in 1934.

Compensation and Medical Aid Costs, Schedule 1

Table 20 contains the total and average cost of compensation and medical aid by classes in Schedule 1 for each kind of disability.

The total cost of all accidents was $4,543,669.26, of which $3,471,992.45 was for compensation (including payments for rehabilitation but not for silicosis cases), and $1,071,676.81 was for medical aid (except in silicosis cases).

Of the $3,471,992.45 compensation cost, $1,314,280.74 was for temporary disability cases, $1,232,104.52 was for permanent disability cases, and $925,607.19 was for death cases.

The average cost of temporary disability cases was $103.65, of which $67.44 was for compensation and $36.21 was for medical aid, the average in 1935 being $113.40.

The average cost of permanent disability cases was $1,888.75, of which $329.08 was for temporary disability, $1,338.18 for permanent disability, and $221,49 was for medical aid.

The average cost of death cases where there were dependants was $5,969.62, and the average cost of all death cases was $4,691.30, of which $77.03 was for temporary disability, $119.66 for burial expenses, $4,362.94 for death benefits, and $131.67 for medical aid.

The average cost of all cases in which compensation was paid was $213.81, of which $169.95 was for compensation and $43.86 was for medical aid, as compared with $220.17 for 1935, and $214.80 for 1934.

The average cost of medical aid in medical aid only cases was $5.93, as compared with $5.93 in 1935, and $5.94 in 1934.

Allegiance of Injured

Table 21 shows the allegiance of injured workers who received compensation, as taken from their own reports. There were 21,460, or nearly 89 per cent., of British allegiance, and 2,601 of foreign allegiance. Among the aliens the most numerous were: Finns, Poles, Russians, Czechs, and Italians.

Sex and Marital Condition of Injured

Table 22 gives the sex and marital condition of those receiving compensation. There were 23,833 males and 228 females. Of the males, 14,144 were married, and 44 of the females. There were 387 widowers and 35 widows.

Duration of Disability

Table 23 shows the week of termination of temporary disability cases. In over 40 per cent. of the cases the disability terminated in from one to two weeks. In 65 cases the disability lasted for more than a year.

Nature of Injuries

The first part of Table 24 shows the number of various kinds of temporary disability injuries in the different classes of industry; the second part gives an analysis of the permanent disability cases, showing the number of injuries to the several parts of the body and the percentages of impairment of earning capacity; and the thirdpart of the table shows the number and nature of the industrial disease cases.

For 1936 there were 7,391 cuts, lacerations and punctures; 5,950 bruises, contusions, and abrasions; 3,042 fractures; 2,671 sprains, strains, twistings, and wrenchings; 1,374 crushes; 829 burns and scalds; 676 injuries to eyes; 181 dislocations, and 358 herniae.

Among the 835 permanent disability cases were 20 permanent total disability cases, and 303 exceeded ten per cent. of working capacity.

There were 51 industrial disease cases, of which 10 involved medical aid only; 24 were temporary disability cases; 6 were permanent disability cases; and 11 were death cases. Included in these totals are 15 cases of lead poisoning; 21 cases of silicosis and pneumoconiosis; and 8 cases of chrome poisoning.

Causes of Accidents

Table 25 gives the prime causes of accidents in 1936. Machinery was responsible for 9, 183 out of a total of 54,147, or 17 per cent. of all cases, as compared with 16.1 per cent. in 1935, and 15.39 per cent. in 1934.

Blood-Poisoning Cases

The number of compensation cases in which the seriousness of the accident was due to concurrent or subsequent infection rather than to the nature of the wound is shown in Table 26. There were 1,327 such cases, or 5.5 per cent. of cases compensated, including 21 cases of permanent disability and 4 deaths.

Death Cases

The nature of awards, the number, relationship, and residence of dependants, are shown in Table 27.

TABLE 15

FINAL FINANCIAL STATEMENT FOR 1936, SCHEDULE 1

BY CLASSES

Class	Income and Credits	Expenditure and Charges	Balance for 1936	Balance Forward Prior Years	Balance at Dec. 31, 1936	Class
	$ c.	$ c.	$ c.	$ c.	$ c.	
1	635,526.74	559,018.95	76,507.79	—241,079.12	—164,571.33	1
2	239,306.77	249,235.59	—9,928.82	164,191.04	154,262.22	2
3	71,007.99	51,733.63	19,274.36	—11,502.69	7,771.67	3
4	146,721.12	113,130.22	33,590.90	—47,871.79	—14,280.89	4
5	1,191,586.13	**909,598.28	281,987.85	950,467.62	1,232.455.47	5
6	183,133.74	180,808.03	2,325.71	120,714.17	123,039.88	6
7	93,941.85	63,007.16	30,934.69	102,586.49	133,521.18	7
8	143,380.05	93,156.99	50,223.06	67,465.64	117,688.70	8
9	180,188.23	148,628.27	31,559.96	214,699.23	246,259.19	9
10	353,215.10	276,858.84	76,356.26	141,985.13	218,341.39	10
11	332,270.15	228,894.58	103,375.57	—3,353.70	100,021.87	11
12	222,134.07	205,168.68	16,965.39	93,172.93	110,138.32	12
13	75,967.06	67,641.78	8,325.28	21,270.25	29,595.53	13
14	69,810.58	52,666.85	17,143.73	—20,443.27	—3,299.54	14
15	383,746.74	278,533.89	105,212.85	—93,066.13	12,146.72	15
16	118,319.32	101,628.27	16,691.05	68,552.43	85,243.48	16
17	115,942.94	96,722.82	19,220.12	38,153.34	57,373.46	17
18	101,082.46	83,880.32	17,202.14	41,396.66	58,598.80	18
19	96,834.54	63,167.66	33,666.88	—3,993.81	29,673.07	19
20	317,909.95	300,469.50	17,440.45	78,315.34	95,755.79	20
21	261,288.29	249,912.75	11,375.54	123,960.37	135,335.91	21
22	64,033.15	62,130.84	1,902.31	70,204.70	72,107.01	22
23	126,658.56	96,061.54	30,597.02	304,337.46	334,934.48	23
24	645,554.84	489,536.67	156,018.17	—90,042.69	65,975.48	24
	†6,169,560.37	*5,021,592.11	1,147,968.26	2,090,119.60	3,238,087.86	

† Includes $4,490.66 reimbursement from D. P. & N. H.;

Disaster Reserve—	Class 6	$45,000.00
	Class 21	4,000.00

* Includes $6,043.60 for Rehabilitation.

** Includes $13,555.06 for Mine Rescue Work.

TABLE 15—Continued
BY GROUPS

Assessments and Compensation			Other Credits and Charges			
Group and Class	Assessments	Compensation and Medical Aid	Sections 8,105, 112 (3), Etc.	Administration Expenses and Safety Assns.	Balance Forward Prior Years	Balance at December 31, 1936
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Group 010	336,592.08	231,358.83				
" 011	94,747.65	67,058.95				
" 012	199,425.29	208,913.42				
Class 1	630,765.02	507,331.20	4,761.72	51,687.75	—241,079.12	—164,571.33
Group 020	119,558.95	101,658.79				
" 021	27,816.48	32,175.76				
" 022	90,579.09	89,332.31				
Class 2	237,954.52	223,166.86	1,352.25	26,068.73	164,191.04	154,262.22
Group 030	70,679.80	45,429.96				
Class 3	70,679.80	45,429.96	328.19	6,303.67	—11,502.69	7,771.67
Group 040	93,490.36	62,855.69				
" 041	17,306.05	12,967.04				
" 042	10,053.10	6,424.94				
" 043	7,262.89	7,323.15				
" 044	17,732.90	11,073.81				
Class 4	145,845.30	100,644.63	875.82	12,485.59	—47,871.79	—14,280.89
Group 051	756,027.17	586,068.50				
" 052	361,692.10	188,270.11				
" 055	30,408.99	19,814.82				
" 056	38,357.41	33,130.42				
" 057	2,184.78	223.31				
Class 5	1,188,670.45	827,507.16	2,915.68	82,091.12	950,467.62	1,232,455.47
Group 060	11,261.37	73,892.46				
" 061	30,083.91	18,449.11				
" 062	11,290.59	8,922.83				
" 063	25,541.99	18,799.37				
" 064	18,556.68	8,306.14				
" 065	22,370.24	28,758.87				
" 066	18,134.15	10,630.15				
Class 6	137,238.93	167,758.93	45,894.81	13,049.10	120,714.17	123,039.88
Group 070	93,941.85	54,614.01				
Class 7	93,941.85	54,614.01	....	8,393.15	102,586.49	133,521.18
Group 080	74,498.26	44,947.33				
" 082	53,473.51	31,221.79				
" 083	15,241.48	2,968.29				
Class 8	143,213.25	79,137.41	166.80	14,019.58	67,465.64	117,688.70
Group 090	21,399.51	18,744.02				
" 091	15,399.24	20,034.46				
" 092	6,264.73	2,941.71				
" 093	3,535.77	5,417.60				
" 094	117,833.71	82,038.81				

TABLE 15—Continued

BY GROUPS

Assessments and Compensation			Other Credits and Charges			
Group and Class	Assessments	Compensation and Medical Aid	Sections 8,105, 112 (3), Etc.	Administration Expenses and Safety Assns.	Balance Forward Prior Years	Balance at December 31, 1936
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
" 095	11,642.18	5,867.19				
Class 9	176,075.14	135,043.79	4,113.09	13,584.48	214,699.23	246,259.19
Group 100	66,945.55	56,155.23				
" 101	103,520.39	59,623.43				
" 102	44,010.21	30,409.75				
" 103	47,696.55	32,954.42				
" 104	21,495.53	24,227.90				
" 105	17,251.00	9,342.53				
" 106	40,706.01	27,142.50				
" 107	9,397.92	8,098.72				
Class 10	351,023.16	247,954.48	2,191.94	28,904.36	141,985.13	218,341.39
Group 110	59,907.17	38,465.32				
" 111	251,446.53	146,787.15				
" 113	20,086.18	16,380.60				
Class 11	331,439.88	201,633.07	830.27	27,261.51	—3,353.70	100,021.87
Group 120	73,679.35	55,322.48				
" 121	64,142.96	63,866.71				
" 122	46,752.36	28,485.27				
" 123	13,118.59	7,934.80				
" 124	23,407.80	30,245.04				
Class 12	221,101.06	185,854.30	1,033.01	19,314.38	93,172.93	110,138.32
Group 130	48,318.03	54,615.29				
" 131	27,326.83	9,065.34				
Class 13	75,644.86	63,680.63	322.20	3,961.15	21,270.25	29,595.53
Group 140	69,614.00	46,670.11				
Class 14	69,614.00	46,670.11	196.58	5,996.74	—20,443.27	—3,299.54
Group 150	103,420.66	74,377.75				
" 151	73,138.59	69,134.47				
" 152	25,688.08	17,145.51				
" 153	57,173.96	29,848.76				
" 154	35,679.31	12,614.11				
" 155	71,599.68	36,402.37				
" 156	9,225.70	4,215.84				
Class 15	375,925.98	243,738.81	7,820.76	34,795.08	—93,066.13	12,146.72
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Group 160	43,642.87	35,941.05				
" 161	15,868.14	11,025.34				
" 162	9,204.20	12,327.57				
" 163	27,530.90	15,445.80				
" 164	21,952.46	15,471.86				
Class 16	118,198.57	90,211.62	120.75	11,416.65	68,552.43	85,243.48

TABLE 15—Continued
BY GROUPS

Assessments and Compensation			Other Credits and Charges			
Group and Class	Assessments	Compensation and Medical Aid	Sections 8,105, 112 (3), Etc.	Administration Expenses and Safety Assns.	Balance Forward Prior Years	Balance at December 31, 1936
Group 170	59,849.54	44,405.25				
" 171	39,569.35	34,520.86				
" 172	16,522.05	8,625.13				
Class 17	115,940.94	87,551.24	2.00	9,171.58	38,153.34	57,373.46
Group 180	71,002.68	55,266.33				
" 181	29,353.99	19,143.87				
Class 18	100,356.67	74,410.20	725.79	9,470.12	41,396.66	58,598.80
Group 190	23,913.73	11,006.18				
" 191	51,981.45	21,000.66				
" 192	10,521.78	5,550.83				
" 193	9,903.41	18,482.18				
Class 19	96,320.37	56,039.85	514.17	7,127.81	—3,993.81	29,673.07
Group 200	207,776.04	181,841.39				
" 201	107,599.27	100,758.10				
Class 20	315,375.31	282,599.49	2,534.64	17,870.01	78,315.34	95,755.79
Group 210	213,576.61	197,688.34				
" 211	37,246.30	37,110.88				
Class 21	250,822.91	234,799.22	10,465.38	15,113.53	123,960.37	135,335.91
Group 220	63,734.84	55,087.43				
Class 22	63,734.84	55,087.43	298.31	7,043.41	70,204.70	72,107.01
Group 230	42,045.78	29,125.05				
" 231	35,281.20	18,013.42				
" 232	47,225.10	34,939.06				
Class 23	124,552.08	82,077.53	2,106.48	13,984.01	304,337.46	334,934.48
Group 240	410,454.56	288,875.28				
" 241	14,735.07	26,758.04				
" 243	18,976.38	16,908.57				
" 244	69,178.91	38,997.09				
" 245	59,192.59	39,434.52				
" 246	34,941.26	31,433.51				
" 247	24,699.99	7,127.17				
" 249	9,150.14	1,193.15				
Class 24	641,328.90	450,727.33	4,225.94	38,809.34	—90,042.69	65,975.48
Schedule 1	6,075,763.79	*4,543,669.26	†93,796.58	**477,922.85	2,090,119.60	3,238,087.86

†Includes reimbursement from D. P. & N. H. .... $ 4,490.66
Disaster Reserve, Class 6 .... 45,000.00
Disaster Reserve, Class 21 .... 4,000.00
*Includes $ 6,043.60 for rehabilitation.
**Includes $13,555.06 for Mine Rescue Work.

TABLE 16

NUMBER OF ACCIDENTS IN 1936 INVOLVING PAYMENT

Class	Medical Aid Only	Temporary Disability	Permanent Disability	Death	TOTALS
1	742	2,955	91	19	3,807
2	1,178	1,298	34	10	2,520
3	537	303	18	......	858
4	760	506	44	2	1,312
5	2,190	2,371	100	69	4,730
6	535	346	8	18	907
7	457	159	11	2	629
8	1,003	352	10	3	1,368
9	1,696	481	28	4	2,209
10	3,673	1,123	63	3	4,862
11	4,438	855	37	5	5,335
12	1,002	501	20	7	1,530
13	266	232	13	1	512
14	578	201	11	1	791
15	2,469	1,527	32	4	4,032
16	818	337	17	6	1,178
17	888	446	24	1	1,359
18	1,091	531	4	3	1,629
19	775	362	16	1	1,154
20	1,185	1,336	47	9	2,577
21	946	1,211	30	8	2,195
22	165	118	6	5	294
23	434	346	7	6	793
24	1,821	1,590	68	16	3,495
Totals	29,647	19,487	739	203	50,076
Schedule 2	25	1,526	48	42	1,641
Crown Cases	414	1,941	48	27	2,430
GRAND TOTALS	30,086	22,954	835	272	54,147

TABLE 17

MONTH OF OCCURRENCE OF ACCIDENTS, 1936

Month of Occurrence	Medical Aid Only	Temporary Disability	Permanent Disability	Death	TOTALS
January	2,001	1,954	63	10	4,028
February	2,025	1,874	57	24	3,980
March	2,351	1,657	64	15	4,087
April	2,343	1,415	60	14	3,832
May	2,574	1,632	53	15	4,274
June	2,715	1,873	66	31	4,685
July	2,950	2,130	67	16	5,163
August	2,758	1,960	69	30	4,817
September	2,722	2,105	88	26	4,941
October	2,760	2,210	89	38	5,097
November	2,523	2,150	85	31	4,789
December	2,364	1,994	74	22	4,454
TOTALS	30,086	22,954	835	272	54,147

TABLE 18

LOCALITY OF ACCIDENTS, 1936

County or District	Medical Aid Only	Temporary Disability	Permanent Disability	Death	TOTALS
Algoma	347	730	14	4	1,095
Brant	620	276	9	4	909
Bruce	73	133	4	3	213
Carleton	722	769	32	4	1,527
Dufferin	18	26	......	1	45
Dundas	19	45	2	......	66
Durham	149	53	2	......	204
Elgin	141	137	5	......	283
Essex	2,443	654	36	7	3,140
Frontenac	372	212	15	4	603
Glengarry	46	43	......	......	89
Grenville	87	59	1	1	148
Grey	262	206	9	9	486
Haldimand	67	58	3	......	128
Haliburton	39	90	3	......	132
Halton	261	152	6	3	422
Hastings	334	475	19	8	836
Huron	70	119	6	......	195
Kenora	254	659	16	11	940
Kent	388	162	7	7	564
Lambton	355	215	6	2	578
Lanark	166	151	4	2	323
Leeds	210	141	9	......	360
Lennox-Addington	44	45	3	3	95
Lincoln	683	312	15	3	1,013
Manitoulin	7	37	2	......	46
Middlesex	664	598	20	2	1,284
Muskoka	107	158	5	1	271
Nipissing	169	464	13	3	649
Norfolk	135	96	3	1	235
Northumberland	66	78	2	1	147
Ontario	1,509	250	13	1	1,773
Oxford	383	239	7	3	632
Parry Sound	114	385	13	5	517
Patricia	84	192	4	4	284
Peel	83	121	8	1	213
Perth	208	159	3	3	373
Peterborough	423	244	13	1	681
Prescott	49	38	3	1	91
Prince Edward	9	18	......	......	27
Rainy River	215	528	8	5	756
Renfrew	250	374	15	3	642
Russell	3	9	......	......	12
Simcoe	383	325	16	3	727
Stormont	202	136	7	2	347
Sudbury	446	983	51	21	1,501
Temiskaming	2,557	2,336	78	46	5,017
Thunder Bay	663	1,930	40	17	2,650
Victoria	103	130	4	2	239
Waterloo	1,254	592	31	6	1,883
Welland	1,271	616	24	8	1,919
Wellington	534	272	8	4	818
Wentworth	2,097	943	48	11	3,099
York	7,921	4,704	162	32	12,819
Not in Ontario	7	77	8	9	101
TOTALS	30,086	22,954	835	272	54,147

TABLE 19

TIME LOSS, AVERAGE AGE, AND AVERAGE WAGE, 1936

Class	TIME LOSS*						AGE	WAGE
	Temporary Disability		Permanent Disability		Death Cases		All Cases	All Cases
	Total Days	Average Days	Total Days	Average Days	Total Days	Average Days	Average Age (Years)	Average Weekly Wage
1	85,526	28.94	14,184	155.87	454	23.89	33.94	$13.50
2	29,894	23.03	3,491	102.68	6	.60	33,67	18.18
3	6,498	21.45	1,640	91.11	......	......	35.34	15.93
4	12,164	24.04	5,892	133.91	0	0	35.86	14.27
5	68,083	28.71	16,504	165.04	3,140	45.51	32.91	28.72
6	10,408	30.08	1,451	181.38	532	29.56	35.15	16.05
7	4,268	26.84	915	83.18	0	0	40.34	21.34
8	8,731	24.80	2,137	213.70	249	83.00	39.21	18.33
9	13,928	28.96	3,861	137.89	664	166.00	39.06	18.53
10	24,942	22.21	8,216	130.41	215	71.67	33.29	17.86
11	20,256	23.69	3,566	96.38	152	30.40	36.46	21.29
12	14,390	28.72	3,556	177.80	27	3.86	37.90	20.14
13	9,431	40.65	1,845	141.92	0	0	40.89	17.40
14	4,652	23.14	1,772	161.09	102	102.00	35.51	18.29
15	37,402	24.49	7,367	230.22	0	0	33.89	18.39
16	8,201	24.34	1,820	107.06	194	32.33	33.68	16.48
17	10,017	22.46	2,984	124.33	0	0	31.88	15.45
18	9,527	17.94	600	150.00	0	0	30.84	16.11
19	7,009	19.36	1,767	110.44	0	0	31.79	13.60
20	36,670	27.45	8,032	170.89	397	44.11	34.63	15.87
21	35,064	28.95	6,026	200.87	0	0	35.40	17.49
22	4,637	39.30	803	133.83	5	1.00	41.16	23.25
23	11,531	33.33	1,812	258.86	0	0	37.66	19.42
24	51,360	32.30	15,536	228.47	320	20.00	37.51	19.59
Schedule 2	51,677	33.86	12,936	269.50	292	6.95	42.16	20.95
Crown	55,538	28.61	13,243	275.90	386	14.30	41.12	20.14
ALL	631,804	27.52	141,956	170.01	7,135	26.23	35.82	18.82

* This does not include loss of man power by permanent impairment or death.

TABLE 20

TOTAL AND AVERAGE COMPENSATION AND MEDICAL AID COSTS, 1936, SCHEDULE 1, BY CLASSES

Compensation Costs

Class	Temporary Disability Cases		Permanent Disability Cases				Death Cases						ALL CASES	
	For Temporary Disability		For Temporary Disability		For Permanent Disability		For Temporary Disability		For Death Benefits		For Funeral Expenses			
	Total	Average	Total	Average	Total	Average	Total	Average	Total	Average	Total	Average	Total	Average
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1	182,566.17	61.78	26,440.48	290.55	135,173.09	1,485.42	828.59	43.61	27,586.75	1,451.93	2,375.00	125.00	374,970.08	122.34
2	75,462.30	58.14	7,457.05	219.33	38,282.50	1,125.96	11.56	1.16	49,801.00	4,980.10	1,250.00	125.00	172,264.41	128.36
3	12,613.83	41.63	3,172.10	176.23	16,434.00	913.00	....	....	....	....	....	....	32,219.93	100.37
4	23,467.36	46.38	10,129.31	230.21	31.684.00	720.01	0	0	9,085.00	4,542.50	250.00	125.00	74,615.67	135.17
5	152,452.71	64.30	45,228.51	452.29	203,189.25	2,031.89	8,847.66	128.23	280,369.00	4,063.32	8,604.00	124.70	698,691.13	275.08
6	31,890.63	92.17	2,867.92	358.49	5,947.00	743.38	308.33	17.13	103.648.06	5,758.23	1,625.00	90.28	146,286.94	393.24
7	11,907.53	74.89	1,907.37	173.40	18,250.00	1,659.09	0	0	8,182.00	4,091.00	250.00	125.00	40,496.90	235.45
8	13,280.53	37.73	4,032.24	403.22	21,281.50	2,128.15	516.95	172.32	20,391.00	6,797.00	375.00	125.00	59,877.22	164.05
9	31,242.40	64.95	8,222.73	293.67	32.233.75	1,151.21	1,454.13	363.53	22,956.00	5,739.00	500.00	125.00	96,609.01	188.32
10	82,662.82	73.61	15,784.79	250.55	65,634.69	1,041.82	371.37	123.79	17,493.00	5,831.00	375.00	125.00	182,321.67	153.34
11	58,902.74	68.89	8,424.97	227.70	39,817.45	1,076.15	372.04	74.41	16,536.00	3,307.20	625.00	125.00	124,678.20	138.99
12	57,485.39	114.74	5,812.18	290.61	35,564.75	1,778.24	95.10	13.59	46,663.00	6,666.14	750.00	107.14	146,370.42	277.22
13	25,872.83	111.52	3,092.26	237.87	15,310.50	1,177.73	0	0	5,733.00	5,733.00	125.00	125.00	50,133.59	203.80
14	11,019.42	54.82	4,419.67	401.79	9,688.00	880.73	275.07	275.07	8,237.00	8,237.00	125.00	125.00	33,764.16	158.52
15	91,785.07	60.11	14,697.51	459.30	44,283.50	1,383.86	0	0	14,984.00	3,746.00	500.00	125.00	166,250.08	106.37
16	19,828.29	58.84	3,633.44	213.73	15,394.50	905.56	569.37	94.90	28,907.01	4,817.84	750.00	125.00	69,082.61	191.90
17	22,248.39	49.88	5,967.99	248.67	35,760.50	1,490.02	0	0	0	0	125.00	125.00	64,101.88	136.10
18	29,661.88	55.86	1,097.23	274.31	4,097.00	1,024.25	0	0	18,163.00	6,054.33	375.00	125.00	53,394.11	99.25
19	21,577.30	59.61	2,503.59	156.47	7,491.00	468.19	0	0	7,449.00	7,449.00	125.00	125.00	39,145.89	103.29
20	87,515.42	65.51	15,425.35	328.20	60,134.69	1,279.46	825.96	91.77	46,676.00	5,186.22	1,125.00	125.00	211,702.42	152.09
21	97,257.59	80.31	12,778.29	425.94	58,607.00	1,953.57	0	0	9,087.00	1,135.88	875.00	109.38	178,604.88	143.00
22	13,714.94	116.23	1,780.19	296.70	6,938.00	1,156.33	9.38	1.88	21,874.00	4,374.80	572.40	114.48	44,888.91	347.98
23	20,391.12	58.93	2,783.43	397.63	12,945.50	1,849.36	0	0	26,629.00	4,438.17	625.00	104.17	63,374.05	176.53
24	139,474.08	87.72	35,531.25	522.52	74,772.50	1,099.60	1,152.46	72.03	95.228.00	5,951.75	1,990.00	124.38	348,148.29	207.97
ALL	1,314,280.74	67.44	243,189.85	329.08	988,914.67	1,338.18	15,637.97	77.03	885,677.82	4,362.94	24,291.40	119.66	3,471,992.45	169.95

TABLE 20—Continued

Medical Aid Costs

Class	When Medical Aid Only		In Temporary Disability Cases		In Permanent Disability Cases		In Death Cases		FOR ALL CASES	
	Total	Average	Total	Average	Total	Average	Total	Average	Total	Average
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1	3,681.73	4.96	105,550.58	35.72	20,808.81	228.67	2,320.00	122.11	132,361.12	34.77
2	6,408.35	5.44	37,988.18	29.27	6,259.92	184.12	246.00	24.60	50,902.45	20.20
3	3,129.20	5.83	8,505.29	28.07	1,575.54	87.53	....	....	13,210.03	15.40
4	3,972.30	5.23	17,766.15	35.11	4,282.51	97.33	8.00	4.00	26,028.96	19.84
5	15,114.68	6.90	72,592.33	30.62	32,828.17	328.28	8,280.85	120.01	128,816.03	27.23
6	3,110.70	5.81	14,745.73	42.62	2,723.06	340.38	892.50	49.58	21,471.99	23.67
7	3,542.00	7.75	8,805.63	55.38	1,738.48	158.04	31.00	15.50	14,117.11	22.44
8	4,750.31	4.74	11,690.51	33.21	2,137.72	213.77	681.65	227.22	19,260.19	14.08
9	8,689.00	5.12	19,352.60	40.23	5,121.73	182.92	5,271.45	1,317.86	38,434.78	17.40
10	19,445.08	5.29	33,445.81	29.78	12,577.42	199.64	164.50	54.83	65,632.81	13.50
11	28,075.03	6.33	42,865.86	50.14	5,269.23	142.41	744.75	148.95	76.954.87	14.42
12	6,984.36	6.97	24,944.42	49.79	6,665.60	333.28	889.50	127.07	39,483.88	25.81
13	1,676.25	6.30	9,807.55	42.27	1,995.24	153.48	68.00	68.00	13,547.04	26.46
14	4,131.10	7.15	5,158.89	25.67	3,411.21	310.11	204.75	204.75	12,905.95	16.32
15	15,570.49	6.31	54,620.49	35.77	6,634.75	207.34	663.00	165.75	77,488.73	19.22
16	4,895.20	5.98	12,431.14	36.89	2,862.17	168.36	940.50	156.75	21,129.01	17.94
17	4,879.80	5.50	14,008.40	31.41	4,549.66	189.57	11.50	11.50	23,449.36	17.25
18	6,157.59	5.64	13,743.42	25.88	1,109.08	277.27	6.00	2.00	21,016.09	12.90
19	5,169.55	6.67	9,958.63	27.51	1,733.28	108.33	32.50	32.50	16,893.96	14.64
20	7,343.10	6.20	53,174.79	39.80	8,864.13	188.60	1,515.05	168.34	70,897.07	27.51
21	4,797.25	5.07	43,140.36	35.62	8,031.23	267.71	225.50	28.19	56,194.34	25.60
22	976.50	5.92	7,953.52	67.40	991.00	165.17	277.50	55.50	10,198.52	34.69
23	2,513.00	5.79	13,369.68	38.64	2,783.80	397.69	37.00	6.17	18,703.48	23.59
24	10,680.95	5.87	69,954.78	44.00	18,726.01	275.38	3,217.30	201.08	102,579.04	29.35
ALL	175,693.52	5.93	705,574.74	36.21	163,679.75	221.49	26,728.80	131.67	1,071,676.81	21.40

TABLE 21

ALLEGIANCE OF INJURED WORKERS, 1936

Allegiance to	Temporary Disability	Permanent Disability	Death	TOTALS
Argentine	1	....	....	1
Austria	161	6	3	170
Belgium	11	....	1	12
Brazil	2	....	....	2
Bulgaria	8	1	....	9
China	2	....	....	2
Czecho-Slovakia	246	4	7	257
Denmark	25	....	....	25
Esthonia	1	....	....	1
Finland	506	13	7	526
France	37	1	....	38
Germany	38	2	....	40
Great Britain	20,449	768	243	21,460
Greece	3	....	....	3
Holland	9	....	....	9
Italy	207	6	5	218
Japan	....	1	....	1
Jugo-Slavia	85	2	....	87
Lithuania	4	....	....	4
Mexico	2	....	....	2
Norway	39	1	1	41
Persia	1	....	....	1
Poland	503	10	4	517
Roumania	52	1	....	53
Russia	360	10	1	371
Sweden	170	4	....	174
Turkey	6	....	....	6
United States	26	5	....	31
TOTALS	22,954	835	272	24,061

TABLE 22

SEX AND MARITAL CONDITION OF INJURED WORKERS, 1936

Sex and Marital Condition	Temporary Disability	Permanent Disability	Death	TOTALS
Males—				
Married	13,472	478	194	14,144
Single	8,859	323	63	9,245
Widowed	362	18	7	387
Not specified	46	3	8	57
Totals	22,739	822	272	23,833
Females—				
Married	41	3	....	44
Single	139	10	....	149
Widowed	35	....	....	35
Not specified	....	....	....	....
Totals	215	13	....	228
GRAND TOTALS	22,954	835	272	24,061

TABLE 23

WEEK OF TERMINATION OF TEMPORARY DISABILITIES, 1936

In	9,279	cases	the	disability	terminated	in	1	to	2	weeks	after	the	accident
"	4,017	"	"	"	"	"	2	"	3	"	"	"	"
"	2,577	"	"	"	"	"	3	"	4	"	"	"	"
"	1,762	"	"	"	"	"	4	"	5	"	"	"	"
"	1,157	"	"	"	"	"	5	"	6	"	"	"	"
"	868	"	"	"	"	"	6	"	7	"	"	"	"
"	644	"	"	"	"	"	7	"	8	"	"	"	"
"	456	"	"	"	"	"	8	"	9	"	"	"	"
"	358	"	"	"	"	"	9	"	10	"	"	"	"
"	294	"	"	"	"	"	10	"	11	"	"	"	"
"	217	"	"	"	"	"	11	"	12	"	"	"	"
"	176	"	"	"	"	"	12	"	13	"	"	"	"
"	120	"	"	"	"	"	13	"	14	"	"	"	"
"	128	"	"	"	"	"	14	"	15	"	"	"	"
"	92	"	"	"	"	"	15	"	16	"	"	"	"
"	74	"	"	"	"	"	16	"	17	"	"	"	"
"	52	"	"	"	"	"	17	"	18	"	"	"	"
"	44	"	"	"	"	"	18	"	19	"	"	"	"
"	61	"	"	"	"	"	19	"	20	"	"	"	"
"	47	"	"	"	"	"	20	"	21	"	"	"	"
"	43	"	"	"	"	"	21	"	22	"	"	"	"
"	26	"	"	"	"	"	22	"	23	"	"	"	"
"	39	"	"	"	"	"	23	"	24	"	"	"	"
"	21	"	"	"	"	"	24	"	25	"	"	"	"
"	27	"	"	"	"	"	25	"	26	"	"	"	"
"	27	"	"	"	"	"	26	"	27	"	"	"	"
"	30	"	"	"	"	"	27	"	28	"	"	"	"
"	21	"	"	"	"	"	28	"	29	"	"	"	"
"	19	"	"	"	"	"	29	"	30	"	"	"	"
"	13	"	"	"	"	"	30	"	31	"	"	"	"
"	15	"	"	"	"	"	31	"	32	"	"	"	"
"	11	"	"	"	"	"	32	"	33	"	"	"	"
"	12	"	"	"	"	"	33	"	34	"	"	"	"
"	11	"	"	"	"	"	34	"	35	"	"	"	"
"	18	"	"	"	"	"	35	"	36	"	"	"	"
"	133	"	"	"	"	"	36	"	52	"	"	"	"
"	65	"	"	"	did not terminate in				52	"	"	"	"

22,954 TOTAL CASES

TABLE 24

NATURE OF INJURIES, 1936

Temporary Disability Cases

Class	Bruises, Contusions, and Abrasions	Cuts, Lacerations, and Punctures	Fractures	Crushes	Sprains, Strains, Twistings, and Wrenchings	Scalds and Burns	Eye Injuries	Herniae	Internal Injuries	Concussions (brain, spine, etc.)	Dislocations	All Other Injuries	Industrial Diseases (Schedule 3)	TOTALS
1	927	1,010	361	150	293	29	73	37	4	3	19	49	....	2,955
2	333	430	133	74	190	38	43	19	....	1	4	33	....	1,298
3	52	184	18	12	18	4	4	3	....	2	4	2	....	303
4	94	241	64	26	42	14	9	7	....	....	6	3	....	506
5	606	768	398	114	205	67	125	44	2	6	10	23	3	2,371
6	96	107	45	32	37	9	11	4	....	....	1	3	1	346
7	37	41	32	8	11	20	4	2	....	1	2	1	....	159
8	69	96	49	31	28	58	11	3	....	....	3	2	2	352
9	105	149	78	59	37	19	19	6	....	2	1	6	....	481
10	174	486	123	89	86	69	55	18	....	3	8	7	5	1,123
11	167	297	111	55	98	51	31	27	1	3	8	6	....	855
12	128	115	74	33	65	36	13	19	....	....	4	14	....	501
13	69	52	33	14	44	1	2	8	1	1	3	4	....	232
14	34	110	17	5	16	7	3	3	....	2	1	2	1	201
15	387	515	164	65	207	103	26	31	1	4	11	13	....	1,527
16	72	139	37	17	23	15	8	4	1	3	3	14	1	337
17	87	207	47	26	34	19	8	5	1	....	4	7	1	446
18	93	285	33	22	52	28	2	6	1	2	2	5	....	531
19	78	134	44	36	48	8	4	4	....	....	....	5	1	362
20	430	317	176	94	204	23	23	23	4	8	13	12	9	1,336
21	271	369	158	96	182	32	41	19	1	5	11	26	....	1,211
22	30	27	23	1	18	9	3	3	1	1	1	1	....	118
23	98	89	50	22	45	7	14	8	1	2	6	4	....	346
24	411	469	244	74	192	81	50	12	5	13	22	17	....	1,590
Sched. 2	503	286	245	101	233	28	40	15	1	10	20	44	....	1,526
Crown	599	468	285	118	263	54	54	28	4	7	14	47	....	1,941
ALL	5,950	7,391	3,042	1,374	2,671	829	676	358	29	79	181	350	24	22,954

TABLE 24—Continued

Permanent Disability Cases

Part of Body Affected	Per Cent. Impairment of Total Earning Capacity											
	0.0-9.9	10.0-19.9	20.0-29.0	30.0-39.9	40.0-49.9	50.0-59.9	60.0-69.9	70.0-79.9	80.0-89.9	90.0-99.9	100.	TOTALS
Foot	37	6	2	......	......	......	......	......	......	......	......	45
Leg	20	5	5	3	5	5	2	2	......	......	4	51
Head	3	......	1	2	......	1	1	......	......	......	......	8
Face	......	1	......	......	......	......	......	......	......	......	......	1
Eye	51	59	......	......	2	1	1	1	1	......	3	119
Ear	......	......	2	......	......	......	......	......	......	......	......	2
Arm	20	14	5	2	2	7	4	5	......	......	......	59
Hand	26	34	9	9	1	......	......	......	......	......	......	79
Thumb and two fingers	......	......	......	......	......	......	......	......	......	......	......	......
Thumb and one finger	3	1	1	......	......	......	......	......	......	......	......	5
Thumb	107	3	1	......	......	......	......	......	......	......	......	111
One finger	162	......	......	1	......	......	......	......	......	......	......	163
Two fingers	69	3	......	1	......	......	......	......	......	......	......	73
Three fingers	5	5	......	......	......	......	1	......	......	......	......	11
Four fingers	6	7	2	......	......	......	......	......	......	......	......	15
Internal Organs	......	......	......	......	......	......	......	......	......	......	......	......
Industrial Diseases	......	......	2	......	......	......	......	......	......	......	4	6
All Other	23	8	15	13	4	11	2	1	1	......	9	87
TOTALS	532	146	45	31	14	25	11	9	2	......	20	835

Industrial Diseases

Description of Disease	Medical Aid Only	Temporary Disability	Permanent Disability	Death	TOTALS
Lead poisoning or its sequelae	......	15	......	......	15
Silicosis, pneumoconiosis, pthisis	3	3	6	9	21
Chrome poisoning or its sequelae	5	3	......	......	8
Cyanide poisoning	2	2	......	......	4
Benzol poisoning	......	1	......	1	2
Anthrax	......	......	......	1	1
TOTALS	10	24	6	11	51

TABLE 25

CAUSES OF ACCIDENTS, 1936

Cause	Medical Aid Only	Temp. Dis.	Perm. Dis.	Death	TOTALS
A. Prime Movers:					
1. Motors, engines, fans, pumps, and automatic stokers	81	71	7	......	159
2. Shafting, couplings, collars, set-screws, and keys	19	26	2	......	47
3. Belts, lines, pulleys, chains, and sprockets	188	148	11	7	354
4. Gears, cogs, cams, and friction wheels	66	53	10	......	129
Totals	354	298	30	7	689
B. Working Machines:					
1. Brick-making machines	5	7	......	......	12
2. Glass-making machines	6	2	......	......	8
3. Pottery-making machines	......	7	......	......	7
4. Stone-working machines	5	3	......	......	8
5. Mine drills, etc.	141	178	13	2	334
6. Contracting machines	98	125	9	1	233
7. Metal-working machines, n.e.s.	197	61	3	......	261
8. Abrasive wheels	1,483	96	7	......	1,586
9. Drilling and reaming machines	96	20	2	......	118
10. Lathes	458	76	5	......	539
11, Milling machines	93	28	5	......	126
12. Pneumatic tools	248	58	4	......	310
13. Presses—cutting, shaping, forming	570	229	39	1	839
14. Shearing and punching machines	96	20	2	......	118
15. Wire-working machines	16	10	1	......	27
16. Welding and heat-cutting machines	202	20	1	......	223
17. Wood-working machines, n.e.s.	91	74	1	......	166
18. Planers, jointers, and edgers	88	94	20	......	202
19. Saws	400	360	65	1	826
20. Shapers, moulders, and headers	81	27	9	1	118
21. Pulp and paper-making machines, n.e.s.	22	11	1	......	34
22. Barkers	11	9	......	......	20
23. In-running rolls	49	46	5	......	100
24. Paper-products and printing machines, n.e.s.	10	3	......	......	13
25. Cutting machines	9	19	3	......	31
26. Presses—printing and embossing	20	63	9	......	92
27. Stayers	33	28	2	......	63
28. Tanning machines	7	6	1	......	14
29. Leather-working machines	42	34	1	......	77
30. Rubber-working machines	15	14	3	......	32
31. Textile machines, n.e.s.	28	34	5	......	67
32. Carders	19	12	5	......	36
33. Pickers	9	6	4	......	19
34. Sewers	355	93	......	......	448
35. Finishers and launderers	17	10	......	......	27
36. Knitters	47	21	2	......	70
37. Cutters	23	13	1	......	37
38. Weavers	76	41	2	......	119
39. Spinners	6	13	1	......	20
40. Food-products, laboratory and tobacco machines, n.e.s.	59	77	14	......	150
41. Baking machines	10	25	3	......	38
42. Bottling machines	39	23	1	......	63
Totals	5,280	2,096	249	6	7,631

TABLE 25—Continued

Cause	Medical Aid Only	Temp. Dis.	Perm. Dis.	Death	TOTALS
C. Hoisting Apparatus:					
1. Elevators	29	39	2	......	70
2. Cranes	78	79	6	2	165
3. Conveyors	158	68	6	1	233
4. Mine cages	9	34	1	......	44
5. Other hoisting apparatus	111	220	9	11	351
Totals	385	440	24	14	863
D. Dangerous Substances:					
1. Steam escapes	41	74	......	......	115
2. Explosives	19	95	18	13	145
3. Electric currents	44	37	5	11	97
4. Conflagrations	2	10	......	4	16
5. Hot and inflammable substances and flames	626	521	8	2	1,157
6. Corrosive substances	226	113	4	......	343
7. Poisonous and deleterious substances	50	119	6	11	186
Totals	1,008	969	41	41	2,059
E. Stepping On or Striking Against Objects					
1. Stepping on objects	392	243	22	1	658
2. Striking against objects	3,679	1,284	......	......	4,963
Totals	4,071	1,527	22	1	5,621
F. Falling Objects:					
1. From collapse of structure	55	163	14	......	232
2. From elevations	304	224	4	6	538
3. In mines and quarries	324	557	21	21	923
4. Other	36	365	17	11	429
Totals	719	1,309	56	38	2,122
G. Handling Objects:					
1. Heavy objects—loading, carrying, rolling, or piling	5,928	5,484	75	23	11,510
2. Sharp objects	707	264	2	......	973
3. Hand trucks, carts, and wheelbarrows	307	324	5	1	637
Totals	6,942	6,072	82	24	13,120

TABLE 25—Continued

Cause	Medical Aid Only	Temp. Dis.	Perm. Dis.	Death	TOTALS
H. Tools:	**2,962**	**2,852**	**76**	**5**	**5,895**
I. Runaways and Animals:					
1. Runaways	9	31	3	1	44
2. Animals	131	170	1	2	304
Totals	140	201	4	3	348
J. Moving Trains, Vehicles, Etc.:					
1. Train wrecks	3	41	1	12	57
2. Caught in switch or hit fixed objects	......	10	......	1	11
3. Struck by or caught between cars and engines	2	44	9	10	65
4. Other causes, cars and engines	2	53	......	1	56
5. Mine and quarry cars	42	133	6	1	182
6. Automobiles and other power vehicles	360	621	22	21	1,024
7. Animal-drawn vehicles	34	173	7	2	216
8. All other vehicles, including boats	11	26	1	3	41
Totals	454	1,101	46	51	1,652
K. Falls of Persons:					
1. From elevations	81	313	22	18	434
2. From ladders	153	341	26	1	521
3. Into excavations, pits, and shafts	79	89	3	2	173
4. On level	1,786	3,334	32	6	5,158
5. Into elevator shafts	......	6	17	1	24
6. From vehicles	140	489	......	10	639
7. From collapse of support	55	163	14	......	232
8. On steps or stairways	164	222	3	1	390
9. From tool slipping	12	37	2	1	52
Totals	2,470	4,994	119	40	7,623
L. All Other Causes:					
1. Flying fragments	4,801	665	77	1	5,544
2. Doors, gates, windows, and covers	368	213	4	......	585
3. Inhalation of gases, fumes, etc.	41	18	......	1	60
4. Immersion in water and drenchings	1	5	......	36	42
5. Exposure to elements	59	155	4	1	219
6. Violence	5	12	......	2	19
7. Cave-ins	......	22	1	1	24
8. Not elsewhere specified	26	5	......	......	31
Totals	5,301	1,095	86	42	6,524
GRAND TOTALS	30,086	22,954	835	272	54,147

TABLE 26

BLOOD-POISONING CASES, 1936

Ascribed to time of injury	167
Developed 1 day after injury	249
" 2 days " "	190
" 3 " " "	164
" 4 " " "	130
" 5 " " "	90
" 6 " " "	71
" 7 " " "	50
" 8 " " "	33
" 9 " " "	33
" 10 " " "	25
" 11 " " "	15
" 12 " " "	13
" 13 " " "	9
" 14 " " "	10
" 15 " " "	8
" 16 " " "	6
" 17 " " "	4
" 18 " " "	4
" 19 " " "	1
" 20 " " "	2
" 21 " " "	2
" 23 " " "	4
" 24 " " "	1
" 25 " " "	3
" 26 " " "	2
" 27 " " "	2
" 28 " " "	2
" 34 " " "	1
" 35 " " "	1
" 37 " " "	1
" 42 " " "	1
" 44 " " "	1
" 45 " " "	1
" 47 " " "	1
" 55 " " "	1
" 69 " " "	1
" 90 " " "	1
" 171 " " "	1
" 209 " " "	1
Immobilized joints due to infections	10
Amputations due to infections	10
Permanent eye injuries due to infections	1
Deaths due to infections	4
TOTAL CASES OF INFECTION	1,327

TABLE 27

DEATH CASES, 1936

Number of Cases

Pension Awards	180
Lump Sums	40
Burial Expenses and Medical Aid Only	39
Burial Expenses only	13
TOTAL	272

Number, Relationship, and Residence of Dependants

Relationship of Dependants	Resident in Ontario	Not Resident in Ontario	TOTALS
Widow	173	8	181
Child	238	12	250
Mother	17	8	25
Father	10	3	13
Other	4	......	4
TOTALS	442	31	473

APPENDIX

SUMMARY OF COMPENSATION AND MEDICAL AID AWARDED

From Commencement of Act to End of 1937

Compensation Awarded

Schedule 1 Industries	$79,435,035.49
Schedule 2 (including Crown Cases)	24,827,752.63
Total Compensation	$104,262,788.12

Medical Aid Paid

Schedule 1 Industries	$18,074,098.68
Schedule 2 (including Crown Cases)—Furnished by Employer	
Total Benefits Awarded by Board	$122,336,886.80

SUMMARY OF ACCIDENTS REPORTED

From Commencement of Act to End of 1937

Schedule 1 Industries	1,075,886	
Schedule 2 (including Crown Cases)	177,437	
Total Number of Accidents Reported		1,253,323

FINANCIAL STATEMENT FOR SCHEDULE 1 INDUSTRIES

From Commencement of Act to End of 1937

Income and Credits

Net Assessments received	$104,421,645.67
Received under Section 8	150,987.59
Received under Section 83 (4)	51,806.16
Received under Section 88 (5)	74.25
Received under Section 105	153,360.20
Received under Section 112 (3)	6,080.92
Received from D. P. & N. H.	229,105.22
Interest received	2,867,491.74
Credited from Disaster Reserve	353,121.41
Credited from Pension Fund	1,027,214.62
Received for accidents to blind workmen	770.02
Received from A. C. R.	42,716.00
Assessments estimated to to be due on adjustment of 1937 pay rolls	629,800.00
	$109,934,173.80

Expenditure and Charges

Compensation paid other than pensions, compensation deferred, and under Secs. 22 and 36	$42,471,019.91
Pensions awarded	34,746,448.43
Deferred Compensation awarded	829,434.25
Paid under Section 22	996.40
Paid under former Section 36	41.75
Paid under Section 8	10,908.71
Medical Aid paid	17,945,687.15
Administration Expenses paid	4,412,788.43
Paid to Safety Associations	2,275,850.71
Rehabilitation paid	56,734.63
Transferred to Disaster Reserve	353,259.80
Compensation estimated outstanding for 1937 accidents	1,750,112.84
Medical Aid estimated outstanding for 1937 accidents	472,080.63
Estimated to complete prior years' accidents	833,636.68
Paid under Mine Rescue Work	140,384.27
Balance at Credit of Classes (Table 1)	3,634,789.21
	$109,934,173.80

SUMMARY OF PENSION FUND, SCHEDULE 1

From Commencement of Act to End of 1937

Pension awards	$34,611,824.17
Amount transferred from Disaster Reserve	134,624.26
Amount transferred from Silicosis Account	704,529.82
Interest added	14,296,848.27
	$49,747,826.52
Pension payments	26,444,793.77
	$23,303,032.75
Amount transferred to Current Fund	1,027,214.62
Balance December 31, 1937	$22,275,818.13

SUMMARY OF COMPENSATION DEFERRED, SCHEDULE 1

From Commencement of Act to End of 1937

Compensation deferred	$ 829,849.25
Interest added	102,470.21
	$ 932,319.46
Paid on Compensation Deferred, Principal and Interest	888,230.61
Balance December 31, 1937	$ 44,088.85

SUMMARY OF DISASTER RESERVE, SCHEDULE 1

From Commencement of Act to End of 1937

Amount set aside	$ 353,259.80
Interest added	229,511.36
	$ 582,771.16
Transferred to classes	353,121.41
Balance December 31, 1937	$ 229,649.75

SUMMARY OF RESERVE FOR DEPRECIATION OF SECURITIES

From Commencement of Act to End of 1937

Profit on sale of Investments	$ 608,586.71
Interest	373,639.02
	$ 982,225.73
Transferred to Investment Account	338,074.53
Balance December 31, 1937	$ 644,151.20

SUMMARY OF SILICOSIS ACCOUNT, SCHEDULE 1

From Commencement of Act to End of 1937

Assessments collected		$ 3,780,388.68
Interest added		100,911.88
		$ 3,881,300.56
Payments made:		
Compensation	$1,330,043.07	
Medical Aid	128,411.53	
Salaries and Expenses	412,775.09	
Handling Claims and Supervision	97,940.25	
Salaries and Expenses of Referee Board	32,253.58	
		2,001,423.52
Balance December 31, 1937		$ 1,879,877.04

SUMMARY OF INVESTMENTS, SCHEDULE 1

From Commencement of Act to End of 1937

Invested		$56,576,968.96
Less principal returned	$25,424,889.38	
Less amount written off for Depreciation	338,074.53	
		25,762,963.91
Book Value of Investments December 31, 1937		$30,814,005.05

SUMMARY OF SCHEDULE 2 FUNDS

From Commencement of Act to End of 1937

Received from employers		$19,668,058.01
Interest received		3,368,643.73
Profit on Sale of Investments		176,284.72
		$23,212,986.46
Payments made	$18,628,719.47	
Deposits returned to employers	868,583.35	
		19,497,302.82
Cash in Bank and Invested, December 31, 1937		$ 3,715,683.64

SUMMARY OF INVESTMENTS, SCHEDULE 2

From Commencement of Act to End of 1937

Invested	$ 5,187,285.89
Less principal returned	1,565,771.00
Book Value of Investments December 31, 1937	$ 3,621,514.89

SUMMARY OF RECEIPTS AND PAYMENTS

From Commencement of Act to End of 1937

Schedule 1

Receipts

Assessments, Including additional assessments, added percentage, and interest for under or over estimate	$105,412,703.72	
Less Merit Rating (Charges $1,067,195.43 Refunds 2,058,253.48)	—991,058.05	
		$104,421,645.67
Section 8		150,987.59
Section 83 (4)		51,806.16
Section 88 (5)		74.25
Section 105		153,360.20
Section 112 (3)		6,080.92
D. P. & N. H.		229,105.22
C. N. I. B.		770.02
A. C. R.		42,716.00
Silicosis		3,780,388.68
From Province of Ontario under Section 77, grants for administration expenses		655,500.00
From Schedule 2 and Crown Employees for share of administration expenses		895,725.39
Interest from investments and bank deposits		17,970,872.48
Principal returned from investments		25,424,889.38
Profit on sale of investments		608,586.71
From Special Statistical Services		84,276.89
Rehabilitation Clinic		50,319.75
Refund of Administration Expenses, result of special investigation		782.35
		$154,527,887.66

Payments

Compensation Payments, other than on Pensions or Deferred Awards or under Secs. 22 or 36	$ 42,471,019.91
Pensions	26,444,793.77
Deferred Awards, principal and interest	888,230.61
Under Section 22	996.40
Under former Section 36	41.75
Under Section 8	10,908.71
Medical Aid	17,945,687.15
Rehabilitation	56,734.63
Administration Expenses	6,206,882.43
Safety Associations	2,275,850.71
Investments	56,576,968.96
Silicosis	1,198,538.45
Mine Rescue Work	133,947.29
Rehabilitation Clinic	46,019.01
Overpayment of Administration Expenses from Schedule 2 employers (refunded in 1926)	.12
Cash in Banks, December 31, 1937	271,267.76
	$154,527,887.66

Schedule 2

Receipts

From Employers for Deposits under Section 28 and for Claimants' Moneys	$ 6,730,092.76
From Employers for Deposits under Section 32	12,937,965.25
Interest from Investments and Bank Deposits	3,368,643.73
Principal returned from Investments	1,565,771.00
Profit on Sale of Investments	176,284.72
	$ 24,778,757.46

Payments

To Claimants out of Deposits under Section 28 and Claimants' Moneys	$ 5,859,649.55
Returned to Employers out of Deposits under Section 28	746,085.24
Paid out of Deposits under Section 32:	
To Claimants	12,766,587.93
Returned to Employers	116,728.61
To Schedule 1 for Administration Expenses	5,769.50
Rehabilitation	2,481.99
Investments	5,187,285.89
Cash in Bank, December 31, 1937	94,168.75
	$ 24,778,757.46

AUDITOR'S CERTIFICATE

23rd February, 1938.

THE WORKMEN'S COMPENSATION BOARD OF ONTARIO,
Toronto, Ont.

Dear Sirs:

I have completed a continuous audit of the books of the Board for the year ended 31st December, 1937, and have obtained all the information and explanations I have required.

In my opinion, the attached Statements of Receipts and Payments, Table 6, Schedules 1 and 2, do truly and fairly set forth the cash transactions of the Board for the year ended 31st December, 1937.

Bank balances at the close of the period have been verified by direct communication with the Board's Bankers.

The Investments of the Board as at 31st December, 1937, as shown by the books, have been verified by count. The amortized book value of these Investments is $34,435,519.94. Debenture principal and coupons, due and unpaid, amount to $443,134.73 at 31st December, 1937.

Respectfully submitted,

A. G. CALDER, F.C.A.,

Chartered Accountant.

London, Ontario.

TABLE 6

STATEMENT OF RECEIPTS AND PAYMENTS DURING 1937

Schedule 1

Receipts

Cash in Banks, 1st January 1937:		
Can. Bank of Commerce	$ 4,775.44	
Dominion Bank	180,518.54	
Royal Bank of Canada	22,815.58	
		$ 208,109.56
Net Assessments, Penalties, etc.:		
Gross Assessments	$7,136,944.07	
Under Section 8	5,141.52	
Under Section 105	7,094.36	
Under Section 112 (3)	224.35	
Under Section 88 (5)	74.25	
From D. P. & N. H.	20,803.19	
From Province of Ontario for Blind Workmen	257.10	
From Accident Cost Refunds	7,862.91	
	$7,178,401.75	
Less:		
Assessments and Penalties Refunded	32,132.43	
		7,146,269.32
Silicosis		674,480.31
Interest:		
Investments	$1,334,395.44	
Exchange Premiums	1,265.02	
Bank and Short Date Deposits	7,010.83	
		1,342,671.29
Investments:		
Principal returned	$3,062,079.38	
Profit on Sale of Investments	208,217.46	
		3,270,296.84
From Schedule 2 and Crown Employers for Administration Expenses, account of prior years paid out of Schedule 1 in 1936		59,815.54
Special Statistical Services		10,000.00
Rehabilitation Clinic:		
Refunds from Medical Aid	$ 10,617.50	
Refunds from Schedule 2 Employers	285.50	
		10,903.00
		$12,722,545.86

Payments

Compensation other than Pensions and Compensation Deferred		$ 1,911,093.12
Pensions		2,081,542.63
Deferred Compensation		29,899.45
Rehabilitation		6,043.60
Medical Aid		1,235,372.33
Silicosis		138,231.08
Under Section 8		468.35
Mine Rescue Work		12,314.58
Administration Expenses		396,397.37
Safety Associations		164,000.00
Rehabilitation Clinic Expenses		9,152.13
		$ 5,984,514.64
Investments		6,466,763.46
Cash in Banks, 31st December, 1937:		
Canadian Bank of Commerce	$ 438.45	
Royal Bank of Canada	6,272.95	
Dominion Bank	264,556.36	
		271,267.76
		$12,722,545.86

Schedule 2

Receipts

Cash in Bank, 1st January, 1937:		
Imperial Bank		$ 68,412.33
Employers' Deposits under Section 28		265,995.58
Employers' Deposits under Section 32		771,360.46
Employers' Deposits of Claimants' Moneys		2,330.04
Interest:		
Investments	$167,216.85	
Exchange Premiums	122.50	
Bank Deposits	421.52	
		167,760.87
Investments:		
Principal Returned	$191,446.59	
Profit on Sale of Investments	17,341.04	
		208,787.63
		$1,484,646.91

Payments

To Claimants out of Deposits under Section 28		$ 335,309.70
Deposits Returned to Employers under Section 28		9,686.50
To Claimants out of Claimants' Moneys		4,303.16
Paid out of Deposits under Section 32:		
Compensation	$706,364.06	
Medical Aid	54,673.91	
Rehabilitation	48.43	
		761,086.40
Deposits Returned to Employers under Section 32		17,316.35
Investments		262,776.05
Cash in Bank, 31st December, 1937:		
Imperial Bank		94,168.75
		$1,484,646.91

Ontario Department of Agriculture

REPORT

OF THE

Ontario Veterinary College

1936

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL PAPER No. 29, 1938

ONTARIO

TORONTO
PRINTED AND PUBLISHED BY
T. E. BOWMAN, PRINTER TO THE KING'S MOST EXCELLENT MAJESTY
1937

REPORT OF THE

Ontario Veterinary College

TO THE HONOURABLE DUNCAN MARSHALL,
Minister of Agriculture.

Sir:—

I have the honour to present herewith the following report of the Ontario Veterinary College for the year extending from April 1st, 1936, to March 31st, 1937.

Convocation and Commencement Exercises

At a Special Convocation of the University of Toronto held on May 8th, 1936, the degree of Bachelor of Veterinary Science (B.V.Sc.) was conferred on forty-five graduates by the Chancellor, The Rt. Hon. Sir William Mulock, P.C., K.C.M.G., M.A., LL.D.

The Annual Commencement Exercises were held on November 12th, 1936, in the Assembly Hall of the College at which the Honourable Duncan Marshall, D.Sc., Minister of Agriculture, presided.

In his address the Minister stressed the importance of live stock improvement in the continued development of agriculture. The demand for better and healthier farm animals should be fostered to the fullest possible extent.

The reputation which Ontario and Canada as a whole had gained for healthy live stock was a worth-while national asset and of great benefit in gaining admission for the exportation of all classes of live stock, dressed meats and dairy products to Great Britain and the United States.

The prevention and suppression of animal diseases should be regarded as an important public service which the veterinary profession was successfully accomplishing.

The prizes won by students were presented by R. W. Gladstone, M.P.

Student Enrolment

The number of students in attendance has been satisfactorily maintained during the current year. A total of 218 students were enrolled, being an increase over the previous year. The attendance has now reached the highest level since the year 1915 and is now up to capacity.

To provide for any larger attendance, additional accommodation and increased staff would be required. In the meantime it would still seem desirable to keep the enrolment at a suitable level by a careful selection of applicants within the limit of our capacity.

As in previous years the majority of our students are residents of Ontario, but we also have in attendance a number from each of the other Provinces, from Great Britain, as well as from the United States.

The Teaching and Executive Staff

The members of the staff of the different departments are as follows:

C. D. McGilvray, M.D.V., D.V.Sc., Principal: *Contagious Diseases, Sanitary Science.*

W. J. R. Fowler, V.S., B.V.Sc.: *Anatomy and Surgery.*

H. E. Batt, V.S., B.V.Sc.: *Zoology, Histology, Meat Inspection.*

R. A. McIntosh, M.D.V., B.V.Sc.: *Diseases of Cattle, Obstetrics, Therapeutics.*

F. W. Schofield, B.V.Sc., D.V.Sc.: *Pathology, Bacteriology.*

L. Stevenson, B.V.Sc., M.S.: *Physiology.*

A. A. Kingscote, B.V.Sc., D.V.Sc.: *Parasitology, Pathology.*

J. S. Glover, B.V.Sc.: *Poultry Diseases, Milk Hygiene.*

V. R. Brown, B.V.Sc.: *Anatomy, Hygiene.*

H. R. Potter, B.V.Sc.: *Sporadic Diseases, Hygiene.*

T. L. Jones, B.V.S., M. Sc.: *Bacteriology.*

E. R. Bowness, B.V.Sc.: *Diseases of Fur Animals.*

F. J. Cote, B.V.Sc.: *Canine and Feline Diseases.*

R. Stewart Clark, *Jurisprudence.*

A. L. Shepherd: *Executive Clerk.*

Miss E. Sleeman: *Secretary, Librarian.*

Miss M. Scott: *Stenographer.*

Courses of Study and Instruction

The general course of instruction is being arranged as appears most desirable to meet the general requirements.

Until the time is considered opportune to extend the length of the course, as much time as possible is being devoted to the basic subjects and to laboratory work in each department.

In the department of anatomy the work of dissection has been expanded to include horses, cattle, sheep, swine, dogs and cats. Since radiography (X-ray) is being more extensively used in veterinary practice, more attention is being given to the dissection of those regions that may be most concerned. A series of normal photographs is being prepared for comparative examination in X-ray work on animals. A set of dissected regional specimens is being gradually built up and when completed will make a permanent collection of considerable value. Coloured charts have also been prepared illustrating various structures of special import such as udder structure and conformation, the generative organs, the vascular and nervous systems.

The course in parasitology has been so arranged that the lectures are supplemented by special laboratory exercises, the use of lantern slides and the examination of museum specimens. Students are also required to make a collection of parasites to gain practical experience in conducting post-mortem examinations and at the same time to become familiar with the common parasites of the domestic animals. During the year fifty-nine collections consisting of two thousand five hundred mounted specimens were examined. Numerous specimens have been added to the teaching collection of museum specimens, sets of microscopic specimens and to a rapidly growing collection of animal parasites.

More consideration is also being given to milk hygiene. This course is covered by lectures and practical work, including visits to dairies and dairy farms and the bacteriological and chemical examination of samples of milk submitted for analysis.

Instruction in poultry diseases has also been further developed and owing to the ample material received for laboratory diagnosis, it was possible to make the course a practical one by having the students conduct ante-mortem and post-mortem examinations of diseased birds and to make bacteriological studies where necessary. Certain phases of the practical work were studied on large up-to-date poultry farms.

The subjects of zoology, embryology and histology have been co-ordinated so as to furnish a preparatory course for the development of scientific studies and laboratory work in the applied fields of parasitology, pathology, bacteriology and clinical medicine.

The course in pathology and bacteriology is comprehensive and consists of a series of lectures and laboratory exercises designed to furnish the student with the best possible training in these subjects.

Many post-mortem examinations are also made, thus providing much valuable material for study. An increasing number of pathological specimens are being added to the museum which greatly facilitates the teaching of pathology.

In the departments of therapeutics, medicine and surgery, the lectures and clinical instruction have been correlated so that the student receives definite training in the art of diagnosis, clinical experience, the proper administration of medicines, methods of restraint and surgical manipulations, the general care and management of sick animals.

Special Courses

During the month of June a short course was provided relating to the fur farming industry in co-operation with the Ontario Silver Fox 'Breeders' Association.

The course consisted of special lectures and demonstrations as follows:

The cause, nature and control of Distemper.

Demonstration as to grading of pelts.

Common ailments affecting the fox ranch.

The routine feeding of mink.

Conservation of animal health.

The invisible causes of disease.

The breeding of mink.

Tuberculosis in foxes and mink.

The breeding of foxes.

General principles of feeding.

Nutrition of the pregnant animal and its relation to reproduction.

During the month of July a special course was held in co-operation with the Ontario Veterinary Association.

The programme comprised the following topics:

General review of Mastitis.

Demonstrations on selected cases in a herd of dairy cattle as follows:

(a) The routine procedure in examination of the udder for Mastitis by means of field tests.

(b) The clinical examination of the udder for Mastitis.

Chemical and bacteriological tests for the diagnosis of Mastitis.

General review of prevailing diseases of swine:

(a) Diseases of suckling pigs.

(b) Infectious diseases of swine.

(c) Parasitic diseases of swine.

Anatomy and histology of the udder demonstrated by specimens.

Clinical examination of Mastitis cases and demonstration of field tests.

General discussion:—The prevention, control and treatment of Mastitis.

The pathology and bacteriology of Mastitis demonstrated by cultures and specimens.

The physiology of milk secretion.

Demonstrations and herd examinations for Mastitis.

Public Extension Work

Research and Investigation Work—Owing to the increased student enrolment and additional amount of routine work we were unable to devote as much time to essential research work as we would like.

However, much of the routine work is related to the laboratory examination of specimens and to the investigation of diseases and is of further value in promoting researches which may be undertaken as opportunity permits. Reports of some of the work conducted are submitted as appendices under the following titles:

Studies in Joint-Ill of Foals—This article relates to experiments conducted to determine the protective power of the blood serum of mares against streptoccic infection.

Joint-Ill in Foals—A review of the different methods of treatment and prevention for the disease.

Anemia in Piglets—A simple and effective method of administering iron for the prevention of anemia in suckling pigs.

Acute Fatal Rhinitis in Calves—A report on the occurrence of an acute fatal infection of the respiratory passage in calves.

An Obstinate Case of Warts—A report of the successful treatment of an obstinate case of warts (Verrucosis) by the use of autogenous tissue vaccine.

Suspected Forage Poisoning—A report of an investigation as to the cause of death of six cattle on a farm in Dufferin County.

Pyelonephritis—A description of several cases of renal disease in cows.

Tuberculosis in a Horse—A report on the case of a horse found to be affected with tuberculosis.

Diseases of Swine—A report of an investigation of extensive pig losses in the County of Kent.

Tattooing of Animals—A report of experiments conducted in the tattooing of animals for identification purposes.

Animal Clinics—In this department the practical application of veterinary medicine and surgery is demonstrated. Cases for the clinic come from many parts of the Province, being brought in at the suggestion of practicing veterinarians and others. In addition to those brought from a distance, the Agricultural College live stock and other animals in the immediate vicinity of Guelph are frequently presented for clinical observation and treatment.

The nature of these cases is quite varied and all species of domesticated animals are submitted. This is revealed in the following data taken from the 1936-1937 records of the clinical department.

In the past year 202 horses were submitted to the clinic. Surgical cases were preponderant but there were also a number of disease conditions and in a few instances cases of an infectious nature representing ailments affecting a number of animals in the same quarters. There were 130 cattle submitted and in this species sterility cases and breeding abnormalities were most numerous. There were also a number of herd conditions such as abortion, mammitis, sterility, mange, and hemorrhagic septicemia under surveillance.. Representative cases from affected herds of calf scours, calf pneumonia, Johne's disease, actinomycosis, and tuberculosis were brought in for diagnosis and used for demonstration purposes.

Upwards of 90 swine were submitted for examination. In reference to the swine clinics, there were a considerable number of surgical cases such as hernias, cryptorchidism and other congenital aberrations. These provide interesting and useful clinics because surgical treatment of these abnormalities is attended with good results in most instances and can be clearly demonstrated. Many of the swine cases, however, are disease conditions representative of some affection of a litter or a herd of pigs and because the history of these outbreaks, the clinical aspect of the case, the post mortem examination (in some instances) and the subsequent bacteriological findings can be followed through, they make exceptionally useful clinics. The diseases most commonly observed are anemia of suckling pigs, gastro-enteritis, pneumonia affections, parasitism and nutritional disturbances. Such infections as those responsible for hemorrhagic septicemia, swine erysipelas, necrotic enteritis and general sepsis are frequently isolated.

The sheep clinics are not so numerous as those of swine, but here again certain cases are brought in as examples of flock conditions and include such diseases as parasitism, pregnancy disease, hemorrhagic septicemia, lambing troubles and nutritional imbalances.

The small animal clinic is well patronized—dogs, cats and other pets being submitted for examination and treatment. Many of the cases are surgical in character, but there are a considerable number of patients suffering from the various ailments peculiar to the canine and feline species. Mange, distemper, chorea, gastritis, eczema, fractures and dietary errors being illustrative of the most common disease conditions encountered.

The greater part of the foregoing activities of this department are accomplished during the instructional period of the College. In the interim the work is confined to occasional examinations of exceptional cases, to extension service in the form of investigations of outbreaks of disease and assistance to practioners in a consultation capacity.

Preparation of Biological Products. Seventy-five thousand and seven hundred test doses of *S. pullorum* antigen, and positive and negative control sera were distributed to veterinarians for the agglutination test for *S. pullorum* infection. Eighteen thousand eight hundred and fifteen test doses of *Br. abortus* antigen were also sent out for use by veterinary surgeons. It is gratifying to note that each year more veterinarians are qualifying themselves to conduct the agglutination test for *S. pullorum* and *Br. abortus* infection. In addition to the instruction offered at the usual conferences at the College, instruction in performing these tests has also been given at other times by appointment.

Routine Examination of Specimens. This work is increasing enormously and occupies the major part of the time. It consists of the routine examination of samples of cattle blood, and the bacteriological or such other examination as required of other specimens.

Serological Tests. These are commonly known as blood tests and are widely used for the diagnosis of Bang's disease in cattle (contagious abortion). For the diagnosis of Bang's Disease 20,753 blood samples were submitted to the agglutination or blood test for *B. abortus* infection. Included in this number were 4,054 purebred cows intended for export to the United States. The results of these tests are as indicated in the following table:

BLOOD SERUM EXAMINATIONS FOR BANG'S DISEASE

Animal	Disease	Number of Samples Received	Positive	Doubtful	Negative	Unfit for Testing
Cattle	Bang's Disease (Infectious abortion)	20,753	2,547	522	17,537	147

LABORATORY EXAMINATIONS—During the year specimens were received for laboratory examinations indicated in the following tables:

PATHOLOGICAL EXAMINATIONS

Nature of Case	Cattle	Sheep	Horses	Swine	Dogs	Cats	Rabbits	Birds	Fox	Mink	Fish	Total
Tuberculosis	3						1					4
Neoplasms	3		1	2	26	2						34
Parasites	1	4	4	3	8	5		3	12	3		43
Enteritis	5		2	4	2				4	1		18
Pneumonia	7	2		17	3	1	1		4			35
Nephritis	5		2	1	2	1						11
Tissue from Operations	3	1	12		5							21
Hemorrhagic Septicemia	5	3		7								15
Gastritis			1	1	5				2			9
Food Poisoning					1				1	3		5
Abortion	2		2									4
Anemia				7								7
Pericarditis	3			2				1	1			7
Mastitis	8											8
Johne's Disease	5											5
Hepatitis	4		1	1	1							7
Actinomycosis	4											4
Examination of Pus	5	1	4									10
Blood Tests	2		6									8
Abscess	3		2									5
Red Water	5											5
Swamp Fever			6									6
Urine	2		1									3
Meat Inspection	4			7								11
Miscellaneous	5	2	9	5	8	1	1	3	4	13	3	54
Total	84	13	53	57	61	10	3	7	28	20	3	339

POULTRY DISEASES	No. of Cases
Adult pullorum infection	97
Ascites	3
Avian Diphtheria	4
Coccidiosis	367
Colds and Roup	18
Enterohepatitis (turkeys)	21
Enterohepatitis (chicken)	18
Fowl Cholera	34
Laryngo-tracheitis	61
Leucosis	53
Pullorum Disease of Chicks	610

Poultry Diseases—Continued	No. of Cases
Tuberculosis	43
Duck and Goose Septicaemia	4
Neurolymphomatosis	1
Other Infections	28
Volvulus and Impaction	6
Egg Bound	1
Internal Laying	33
Enteritis	23
External Parasitism	1
Impaction of Crop	5
Impaction of Gizzard	1
Injuries	23
Nutritional Disorders	364
Prolapse	7
Poisoning	1
Ruptured Liver	15
Tumours	61
Worms (ascardia)	68
(capillaria)	38
(large tape)	93
(minute tape)	52
(gizzard)	1
(round and tape)	53
No evidence of Disease or Putrid	x 144
Totals	2352

x 84 of these were cases used at the O.A.C. on a nutritional experiment.

MISCELLANEOUS LABORATORY EXAMINATIONS

Milk and Cream Samples	139
Pus "	4
Water "	1
Feed "	10
Fecal (cow) "	1
Totals	155

Throughout the year an immense volume of correspondence has received attention, as well as daily personal interviews with those concerned seeking advice regarding diseased animals.

Much of this routine work is of an exacting nature, requiring careful and painstaking effort in extending helpful guidance.

The entire staff have been kept fully occupied and have performed their duties in a diligent and competent manner.

All of which is respectfully submitted.

C. D. McGILVRAY,
Principal.

Guelph, Ontario,
March 31st, 1937.

STUDIES IN JOINT-ILL OF FOALS

Experiments to Determine the Protective Power of the Blood Serum of Mares Against Streptococcic Infection in Mice.

FRANK W. SCHOFIELD, D.V.Sc.

During the last decade a new idea has been introduced into the treatment of Joint-Ill (Suppurative Arthritis) in foals. This treatment consists in repeated blood transfusions from the dam to the affected offspring. The theoretical basis of this procedure is that the blood of the mother contains protective substances which are of value in combatting the infection in the foal.

Reports upon the value of this treatment vary; some practioners believe it to have real value, others find it to be worthless.

This report deals with an attempt to assay the protective value of the blood sera of a group of mares, using white mice as the test animals and streptococci isolated from cases of Joint-Ill as the test organism. To the writer the treatment has always seemed to be illogical. The very fact that the offspring may develop an acute infection within a few days of birth, and while still nursing the mother, would indicate that the dam had little specific protection to confer. It is recognized that such transfusions may have a non-specific value in providing the tissues of the foal with nourishment.

The sera of seventeen mares have been tested, ten of which came from mares with healthy foals, and seven from mares which had recently given birth to diseased foals.

Technique. A suitable lethal dose of streptococci was determined by titrating the killing power of a saline suspension of a young agar culture. The quantity which would kill a 20 gm. mouse in from thirty-six to forty-eight hours was found to be satisfactory. In making the test multiples of the lethal dose, as well as quantities less than the lethal dose were employed. Thus several mice were used to test each serum, which is very necessary, due in part to the varying resistance of the mice. The blood sera used were all inactivated at 56°C. for thirty minutes. The following protocol illustrates the technique of the test, and is typical of the results which have been obtained.

PROTECTION TESTS IN MICE USING BLOOD SERUM OF MARES AND STREPTOCOCCI

TITRATION FOR LETHAL DOSE OF STREPTOCOCCI

Saline Suspension of Haemolytic Streptococci	Mice Weight 20 grms. Intra-peritoneal Injection
.5 cc	Dead in 36 hours.
.4 "	" " " "
.3 "	" " " "
.2 "	" " " "
.1 "	" " 48 "
.05 "	Sick. Killed at 60 hours. Streptococcic peritonitis present.

Quantities to be used in test=.2 cc, .1 cc, .05 cc, .02 cc.

PROTECTION TEST IN MICE

Serum of Mare	Quantity of Serum Injected	Dosage of Streptococci	Result
No. 1 Dam of Joint-Ill Foal.	.5 cc .5 " .5 " .5 "	. 2 cc . 1 " .05 " .02 "	Mouse dead at 36 hrs. Mouse dead at 72 hrs. Mouse alive at 100 hrs. Mouse dead at 72 hrs.
No. 2 Dam of Joint-Ill Foal.	.5 cc .5 " .5 " .5 "	. 2 cc . 1 " .05 " .02 "	Mouse dead at 96 hrs. Mouse alive at 100 hrs. Mouse alive at 100 hrs. Mouse alive at 100 hrs.
No. 3 Dam of Healthy Foal.	.5 cc .5 " .5 " .5 "	. 2 cc . 1 " .05 " .02 "	Mouse alive at 100 hrs. Mouse dead at 72 hrs. Mouse alive at 100 hrs. Mouse dead at 72 hrs.
No. 4 Dam of Healthy Foal.	.5 cc .5 " .5 " .5 "	. 2 cc . 1 " .05 " .02 "	Mouse dead at 48 hrs. Mouse dead at 48 hrs. Mouse dead at 72 hrs. Mouse alive at 100 hrs.
Blood of Foal—fatal Case of Joint-Ill.	.5 cc .5 " .5 " .5 "	. 2 cc . 1 " .05 " .02 "	Mouse dead at 48 hrs. Mouse dead at 36 hrs. Mouse dead at 72 hrs. Mouse dead at 36 hrs.

Serum injected intraperitonically three hours before the injection of the live streptococci.

Seventeen different samples of blood have been tested, thirteen of which have been tested twice, and we have been unable to demonstrate any appreciable difference in protective power between sera coming from mares which have given birth to normal foals and those whose offspring have suffered from Joint-Ill. The protective power of the sera, as demonstrated in white mice, is a variable quantity. The nature of the infection in the foal will most likely determine whether the animal recovers or succumbs, irrespective of the treatment employed.

While it is dangerous to draw conclusions from so few tests, yet the results would indicate that protective bodies against streptococci are a variable quantity in the blood of the horse. They may be present in detectable amounts or entirely absent. The value if any of the blood transfusions in the treatment of joint-ill is most likely nutritional.

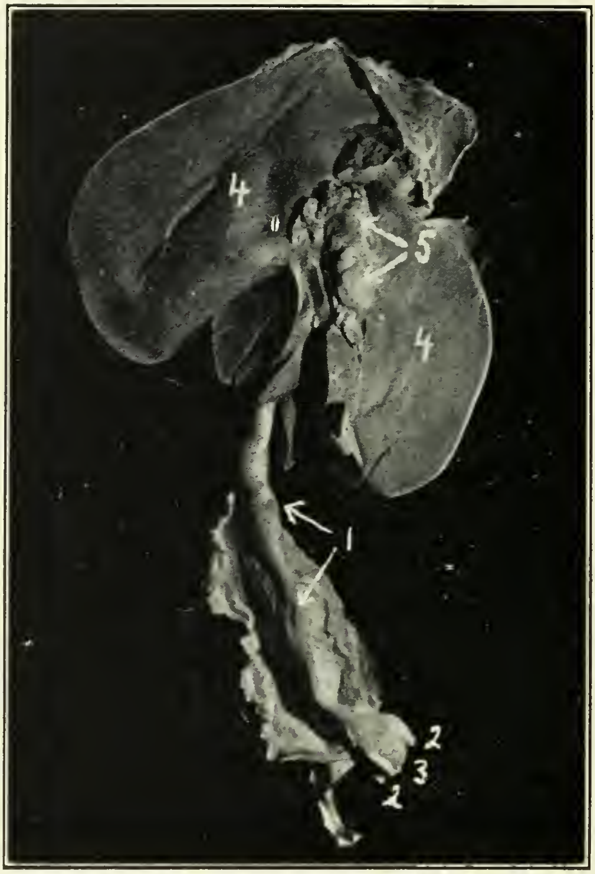
JOINT-ILL IN FOALS

R. A. McIntosh, M.D.V., B.V.Sc.

With the increase in the breeding of the equine species the problem of this disease is brought to notice more forcibly and despite the modern methods suggested for the treatment of it, the mortality remains much the same. It is becoming more evident that efforts towards the prevention of its occurrence should be encouraged rather than to place any great dependence upon the treatment of the condition.

The following is a report of a case of this nature which recently came under observation at the College clinic. At the time the foal was born, it was apparently normal. Its umbilicus was painted with tincture of iodine and other attention given required by a new-born animal. The mother, however, retained her after-birth and it had to be removed. This feature has its significance, for it indicates a latent infection of the uterus. When the foal was about two weeks old, it rather suddenly developed a severe lameness in the right fore leg. The lameness symptoms were very definitely indicative of an affection of the shoulder joint. His temperature was 103. He seemed dull but continued to nurse and was able to get up without assistance. An examination of the umbilicus revealed a small amount of pus, although there was not any tumefaction of the cord as it passed through the umbilical aperture into the abdomen. The colt was immediately given the curative dose of anti navel ill serum and the umbilicus flushed with a hydrogen peroxide solution and subsequently swabbed with tincture of iodine by carrying a cotton swab well down into the discharging tract. The following day no improvement was noticeable and it was again given navel ill serum and the attention to the umbilicus repeated. The third day the treatment was repeated. On the fourth day some swelling in the region of the shoulder joint could be seen and in addition to the anti serum another preparation, sulfanilamide, was given by the mouth. This is a relatively new drug and apparently is quite useful for streptococcic infections. By this time the umbilical tract (probably through daily attention) had opened up somewhat and urine dribbled freely from it at each time the foal urinated. Swabs had been taken from the umbilicus and on microscopic examination streptococci were found. During all this time the temperature ranged between 103 and 104. The bowels were kept in order by the use of castor oil and mineral oil and the syrup of hypophosphites was also given as a stimulant. On the fifth day the sulfanilamade was discontinued for it apparently affected the foal's appetite. The shoulder was becoming more tumified and the colt could not get up if he happened to lie on the affected side. On the sixth day 500 c.c. of the dam's blood was procured, citrated and immediately given to the foal intravenously. The following day 300 c.c. of her blood and 30 c.c. of intravenous mitaphen were combined and given intravenously and for the first time lameness appeared in another leg; namely: the right hind.

Throughout the entire course of the disease the foal was given every possible attention but the progress of the infection was not halted. On the ninth day the other front leg became affected at the carpal joint and as the foal could no longer rise without assistance, it was decided to destroy it. The evening before its destruction, the shoulder was lanced and found to contain a large quantity of inspissated pus. The capsular ligament of the shoulder joint was entirely broken down on the external aspect of the articulation.



Original Photo by V. R. Brown

Lesion from Joint-Ill Foal.

1. Umbilical vein distended with pus.
2. Stumps of umbilical arteries.
3. Stump of the urachus.
4. Enlarged liver.
5. Swollen and inflamed lymph glands.

In the post mortem examination the articular surface of the humerus was in a state of inflammation. The carpal joint of the other front leg was impregnated with a yellowish serum. A similar exudate was found in the region of the right hip joint. On opening the abdomen and exposing the umbilical structures, the vein leading to the liver was found engorged with inspissated pus. Close to the hiatus where the vein enters the liver it was an inch in diameter. The liver itself was enlarged and the kidneys showed inflammatory changes. The hepatic lymphatics were greatly swollen and inflamed.

The opportunity provided to follow this case through and observe the entire course of the disease is of value. The condition of the umbilical vein and the liver noted on post mortem presaged the futility of treatment. Regardless of what might have been given here was an internal lesion which constituted a continual source of virulent infection.

Careful inquiry into the history of joint-ill cases leads one to the conclusion that the infection responsible for it more often occurs prior to the birth of the foal than what is realized. Often mares repeatedly give birth to foals which develop the condition. The mare mentioned in the foregoing report gave birth to a foal two years ago which developed what apparently was a disease of an infective nature and died a few days after birth. She also retained her after-birth on that occasion. A year later she gave birth to a normal foal which grew and developed and is still living. She did not retain her after-birth in this instance. This year the after-birth was retained and the foal developed joint-ill. Just as in cows the factor responsible for the retention of an after-birth is an inflammatory reaction in the uterine crypts and placental villi. This undoubtedly on most occasions has its origin in an infection which while it may not cause disease prior to the birth of the fetus may infect it and after it is born disease occurs. Admittedly joint-ill infections can and do occur subsequent to birth, but when a programme of prevention is outlined the possibility of pre-natal infections should not be lost sight of and should be arranged with that thought in mind.

To prevent the occurrence of joint-ill the first consideration would be the selection of sound, healthy breeding stock. Sires of known breeding potency or sons of such sires should be selected. The same feature is applicable to the dams. At breeding time they should be in the best possible physical health, for under these circumstances strong virile spermatozoa and ova are most likely to be elaborated. Mares that have abnormal genital discharges, and those who have a history of giving birth to weakly or joint-ill foals or retain their after-birth should not be bred until some means has been taken to cleanse the uterus. The irrigation of the uterus of such mares with a warm normal saline solution and the subsequent injection of an ounce or two of a 5% argyrol solution might do much towards overcoming a latent infection. This should be accomplished two weeks before breeding.

The management, care and diet of the pregnant animal is a matter of considerable concern for the health and condition of the pregnant mother is invariably reflected in the vigor and vitality of the new-born. Oftimes when a mare becomes pregnant, the owners neglect her and allow her to shift for herself. It would be much better to give her some extra care. She should be groomed and exercised regularly. Light work is preferable to turning them out for exercise. In reference to her diet, there is no time in the life of a female animal that as much care and consideration should be given her food, for she has placed upon her the burden of providing nutriment for the developing fetus. This phase of the care of the pregnant animal is often grossly neglected. It is not suggested that she should be kept excessively fat but she should be fed in a manner that will meet with the requirements of the developing foal. One of the common errors is to limit the ration to hay and oats alone. This is not sufficient. Pregnant mares should have bran, boiled barley and flax, as well as oats. The roughage should be of a wholesome character and an occasional feed of carrots is always beneficial. Iodized salt instead of ordinary salt should be provided to insure the normal functioning of the thyroid gland, and prevent goitre of the new-born. Towards the conclusion of the pregnancy period, the bulky portion of the diet should be reduced and the food made more laxative in character.

Biologics are available which may be given to the mare during pregnancy and may assist in protecting the developing fetus. At parturition time cleanliness and disinfection of the foaling quarters should be maintained. At birth, the foal's umbilicus should be cared for and an antiseptic applied daily for a few days. Again, the foal itself may be injected with certain biologics which will assist it in building up a resistance to infection. If the weather is suitable, both the foal and the mother should be allowed on pasture, out in the open and sunshine.

A SIMPLE AND EFFECTIVE METHOD OF ADMINISTERING IRON FOR THE PREVENTION OF ANEMIA IN PIGLETS

Frank W. Schofield, D.V.Sc.

Anemia in suckling pigs is undoubtedly on the increase, and that, in spite of the fact that the disease may be easily prevented. While many farmers are still ignorant of the fact that little pigs, especially those of winter litters, frequently suffer from fatal anemia, there are others who neglect the treatment because the frequent dosing of individual pigs is a time consuming task.

The treatment here outlined is the result of numerous experiments, undertaken for the purpose of determining a simple, sure and economical method of administering iron for the prevention of anemia.

Preparation of iron employed. For two reasons we strongly recommend the use of "reduced" iron. First, ease of administration. Being in the form of a very fine powder the iron may be placed directly on the tongue and the pig released without any danger of the iron being lost and not swallowed. When solutions of iron salts are used the pig must be held until the fluid is swallowed, otherwise a part of the dose may trickle out of the mouth when the pig is released. This almost doubles the time required for administration. Second, more iron can be given in one dose when the "reduced" iron is used than with any other form of iron. As much as .3 grams may be given to a young pig with ease and safety. To give an equivalent quantity in the form of a saturated solution of ferrous sulphate would necessitate the feeding of 3.0 c.c., while the time required would be about three times that (required) for "reduced" iron.

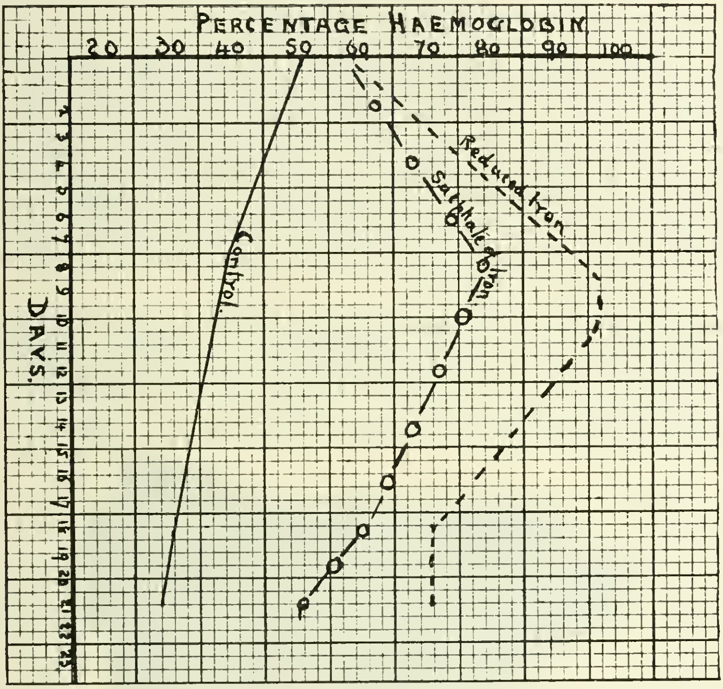
Frequency of dosage. This is a very important item to consider when large numbers of pigs have to be treated. For economy in time and material, the number of doses must be reduced to the minimum compatible with safety. Our experiments would indicate that two doses, about one week apart, are sufficient to carry a pig over the critical period of the first three weeks. The first dose should be given when the pig is three or four days old, and the second from eight to ten days later. This will maintain the haemoglobin at a level above the danger zone, until the pig commences to eat particles of food from the floor.

Method of administration. A supply of reduced iron in a suitable container—a small flat box is most convenient—should be at hand. The approximate quantity, which can be determined after a little experience, is picked up on a bone mustard spoon, or some other suitable instrument, and placed on the tongue of the pig. It soon becomes adherent to the tongue, cheek and lips, and is slowly swallowed.

Quantity of reduced iron. Experiments would indicate that .3 grams of "reduced" iron will hold the haemoglobin content of the blood at a safe level for at least 10 days. The dose is large, but if smaller quantities are used the iron must be given more frequently. This quantity is one-half the amount which can be piled on a small Canadian five-cent piece. In practice the quantity need not be exact. It is advisable, however, to have a standard quantity, .3 grams, which has been carefully weighed by a druggist, for the purpose of checking up on the dosage until one becames familiar with the approximate quantity to use.

Supplementary treatment. A shovelful of earth, or better, a sod which has been liberally sprinkled with a saturated solution of ferrous sulphate, may with advantage be placed in a corner of the pen. The piglets will begin to eat small quantities of this when they are from ten days to two weeks old. This should be replaced twice a week. Reliance upon the feeding of earth alone cannot be recommended, as it is inadequate in piggeries where anemia is a serious menace.

A mineral mixture containing iron should be fed to the pregnant sow. This, while not influencing the iron content of the milk, may add to the iron stored in the liver and spleen of both mother and offspring.



Graph demonstrating the effect of administering a single dose of iron to pigs three days old. In this experiment four pigs were used in each iron group. The dose of reduced iron was 200 mg. and of the sulphate 90 mg. Ninety millegrams is the maximum quantity of iron sulphate which can be given without risk of loss at time of dosing. It represents 1.0 c.c. of a saturated solution.

ACUTE FATAL RHINITIS IN CALVES

(*Due to Corynebacterium Pyogenes*)

FRANK W. SCHOFIELD, D.V.Sc.

Acute fatal infections of the upper respiratory passages occuring in calves, accompanied by marked cerebral symptoms, have previously been reported.

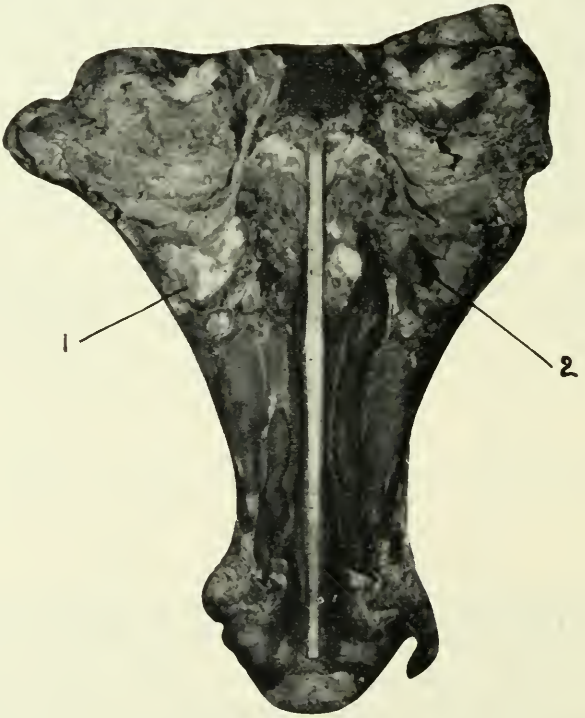
History. Two calves, belonging to a well-kept herd of Jerseys, were affected. When ten days old both were noticed to be somewhat dull and stupid, with a tendency to remain in the recumbent position, with the head drawn to the right side. If aroused, they would get up but showed definite incoordination of movement. The head was held low and constantly moved from side to side with a weaving motion. Examination showed slight nasal discharge, with injection of the conjunctiva. Temperature was never elevated more than one degree. A foetid diarrhoea was present. There was little inclination for food, but when aroused and assisted they would slowly drink a quart or two of milk. In two or three days the nasal discharge became more pronounced and purulent. The other symptoms remained much the same. As one of the calves was failing and refusing food, it was killed and a post-mortem made. The other calf lived on for a week, but as there was no hope for recovery it was destroyed and examined.

Post-mortem findings. The pathological changes were very much the same in both animals, and were of unusual interest.

After the skin of the head was removed, a horizontal incision was made by means of a saw which passed through the upper portion of the turbinates and exposed the maxillary and frontal sinuses. The medial turbinate was found to be filled with a thick purulent exudate. On the surface of the lining mucosa was a well-formed diphthiretic membrane. The mucous membrane covering the upper and lower turbinates was congested. The ethmoid cells showed similar congestion. On exposing the brain, capillary engorgement of the meninges was observed. In one case the fluid in the ventricles was increased in quantity and slightly blood-tinged.

In the second calf to be destroyed, there was marked distention of the medial turbinate due to the accumulation of pus. The frontal bone had undergone necrosis and a small abscess had formed beneath the skin.

Cultures from both cases gave a pure growth of C. *pyogenes*.



Original Photo by V. R. Brown

1. Turbinate filled with pus.
2. Pus partly removed.

AN OBSTINATE CASE OF WARTS (VERRUCOSIS) SUCCESSFULLY TREATED WITH AUTOGENOUS TISSUE VACCINE

Frank W. Schofield, D.V.Sc.

This case is reported because of its unusual severity, failure to respond to ordinary treatment, and the excellent result which followed the use of a vaccine.

History of case. The subject was a two-year-old Norwegian elk hound. Warts, both large and small covered almost the entire surface of the buccal cavity. The dorsum of the tongue was a mass of warts. The condition had existed for several months before systematic treatment was commenced. This consisted in the surgical removal of numbers of warts at brief intervals till all of the larger warts were removed. Within a month fresh crops of warts appeared, and very soon the condition was quite as bad as it was before the treatment. This occurred twice, and as the dog had been treated unsuccessfully for some time before admission to the hospital, it was considered useless to continue any longer the usual treatments. Tissue vaccine was now tried.

The Etiology of Warts. With the exception of senile warts, those commonly occurring in man and animals have been shown by Cuiffo[1] and others to be due to an ultra virus. McFadyean and Hobday[2] produced the disease in dogs by rubbing a recently excised wort over the scarified buccal mucous membrane. No etiological relationship has been demonstrated between human and animal warts.

The Vaccine. This was prepared by thoroughly triturating with pestle and mortar a few warts which had been recently excised. The addition of saline to this pasty material gave a fairly dense, milky suspension. The heavier particles settled within a few minutes: when the supernatant fluid was poured off formalin to make .4% was added, and a sterility test was made twenty-four hours later.

Treatment. A small quantity (1/10cc) of the vaccine was used as an initial dose, to avoid the possibility of a severe reaction. The reaction being very slight, the dose was quickly stepped up until a quantity of 2.0cc was being given. The injections were made at intervals of five days. A total number of ten injections were given.

Result. After about two weeks the condition began to show definite signs of improvement. Few new warts appeared and many of the old ones began to atrophy and exfoliate. At the end of seven weeks the mouth was clear. No warts have since appeared.

Note. The case was treated by Dr. Alan Secord, who kindly reported to me the results. Of several hundred cases observed, he stated this to have been the most severe and intractable.

REFERENCES

1—Cuiffo, G., 1907, Giorn. ital. mal. vener, 42:12.
2—McFadyean, J. & Hobday, F., 1898, J. Comp. Path., 11, 341.

SUSPECTED FORAGE POISONING

Report of an Investigation in which Six Cattle Were Lost in Dufferin County.

R. A. McIntosh, M.D.V., B.V.Sc.

The owner of the herd in which these losses were sustained gave the following history of the condition occurring in his herd. The herd consisted of twenty-eight head of mixed breeding. On Tuesday of the week in which the losses occurred, the first animal died rather suddenly. The following morning another one died and the following day four others were sick. One of the sick animals (a grade Hereford about ten months old) was brought to the College for examination and diagnosis.

The symptoms described were that affected cattle quit eating and drinking, became very dull and then manifested mental derangement by walking aimlessly, bumping into objects and pushing persistently into their stanchions. At times some of them became somewhat delirious and uncontrollable. The animal brought to the College had a normal temperature, was breathing rather slowly, and was very stupid. He held his head to the right and there was a persistent periodical jerk of the neck muscles. At times he would grind his teeth. Peristalsis was lacking and the bowels torpid.

By Saturday all of the sick animals were dead and one more sick, so a visit to the premises was made to determine the character of the disease and, if possible, learn the cause of it. The sick animal while still dull was not as markedly affected as the others and would ruminate at times. The owner had been previously advised to administer sodium hyposulphite three times a day. The remainder of the cattle were all apparently normal.

On inquiring into the feed provided it was learned that for the last four weeks these cattle had been fed on two-year-old clover hay. This constituted their whole diet. They were not getting grain or other food of any kind. The hay was piled in one corner of the mow and while in the centre of the pile it seemed rather dusty, at the same time it didn't appear spoiled, but that portion of it which contacted the walls was spoiled for rain had penetrated between the cracks of the old sheeting on the barn and in some places the hay was quite badly damaged. The owner stated that while he was utilizing this damaged stuff he usually tried to separate it out and bed the cattle with it for he had no straw. The water supply and trough were fairly sanitary although the cattle had been drinking creek water for the last three or four weeks. The cattle were turned out daily but not allowed to pasture any. The horses had been fed a little of this hay but only for a short time.

As there was no evidence of a disease of an infectious nature and the symptoms indicated a toxemia affecting the brain, it was felt that the damaged hay was responsible. A form of forage poisoning, possibly botulism. Before leaving the premises twelve of the remaining cattle were given a protective dose of botulinus antitoxin. The owner was cautioned not to feed any more of the hay and to again report if any other animals became affected. Certain directions were given regarding the care of the sick animal and the following week the owner reported that this animal seemed to be improving.

The post-mortem examination of the animal which died at the College did not reveal any lesions of particular significance which is usually the case with animals that succumb to this form of disease.

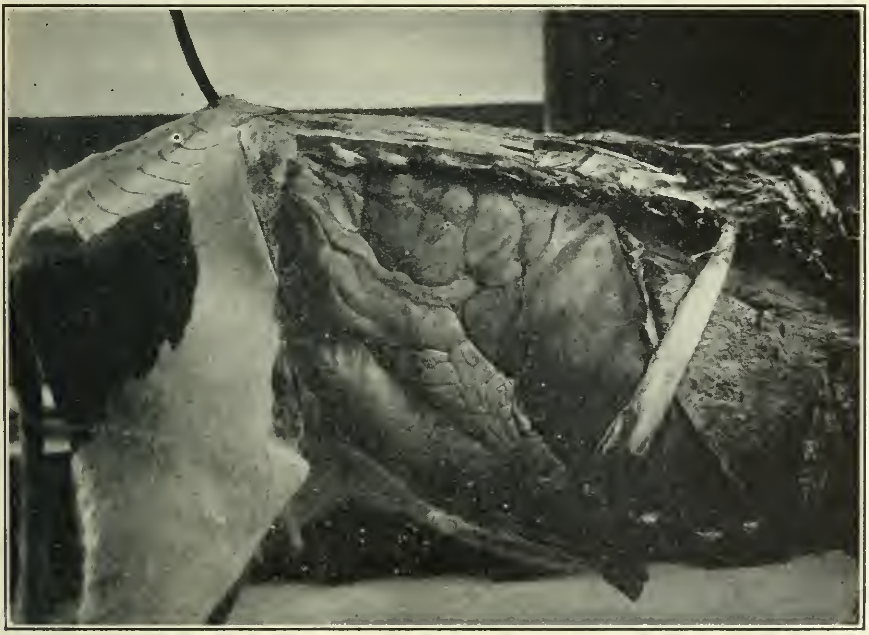
From time to time inquiries regarding the losses of animals under circumstances somewhat similar to those mentioned in this report are received at this institution. While the term forage poisoning is somewhat vague, at the same time it is rather difficult to designate disease conditions of this nature by any other name, and it is always advisable for any who may be concerned with such conditions to enquire carefully into the character of the food. If it is felt that any of the foodstuffs are responsible, it is essential that one should rigidly insist discontinuing it as an article of diet.

PYELONEPHRITIS

R. A. McIntosh, M.D.V., B.V.Sc.

The occurrence of this disease is apparently increasing. Four cases of from widely separated districts were submitted to the College clinic during the 1936-1937 term. Because it is a highly fatal disease and also because the infection causing it in cows is evidently specific, a report of the condition should be timely.

As the term indicates, pyelonephritis is an inflammation of the pelvic portions of the kidneys but the inflammatory reaction also frequently involves the ureters and the bladder. The disease is chronic in its course and gives rise to the discharge of urine containing pus, tissue detritus and oftimes blood stained. It is caused by the *Corynebacterium renalis.* The organism has also been reported as causing the condition in swine, sheep, horses and dogs. Boyd of the University of Minnesota reported eight cases in horses in which the *Corynebacterium renalis* was isolated. In cases where this infection is found responsible for the condition, it is believed that the organism ascends the renal tract from



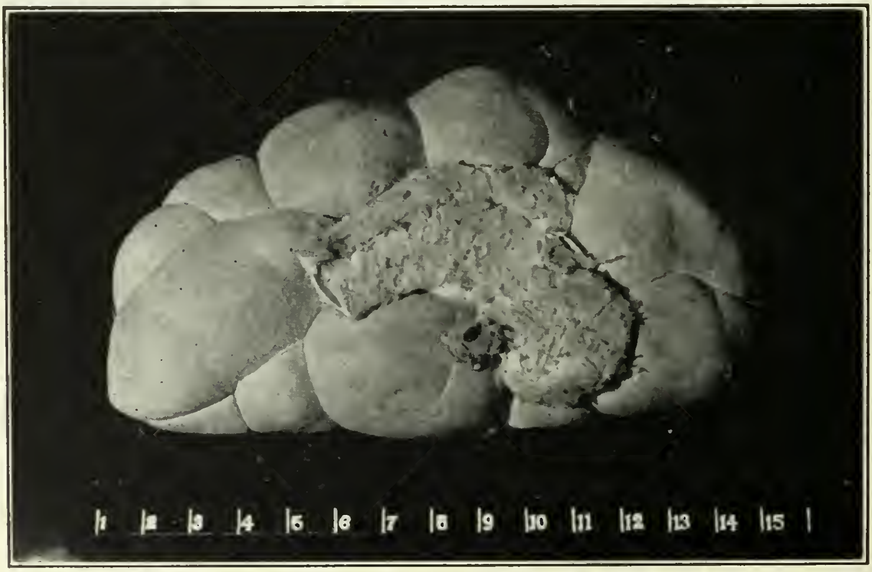
Original Photo by V. R. Brown

Pyelonephritis case showing the enlarged and lobulated kidney in situ.

the external genitals and bladder through the ureters and on into the pelves of the kidneys. Since the organism can be found in the mucosa of normal animals and is widespread in nature it is believed that other factors enter into the occurrence of the disease and in this regard severe parturient disease and genital infections are apparently contributory.

The manifestations and symptoms of the disease are quite varied in character. Usually the condition is well established before skilled assistance is acquired or a diagnosis made. In one of the clinic cases of last year the infection was apparently confined to the bladder for the symptoms of cystitis were all that could be observed and the animal recovered in the course of a few months. All other cases submitted to the clinic have terminated fatally. History records usually reveal a loss of condition over a period of weeks or more often months. Their appetites may remain fair but the loss of flesh and the gradual decline in the amount of milk being secreted continues. In one of the cases brought here the owner stated the first intimation he had of the cow being sick was in the nature of a rather violent colic. She laid down and got up repeatedly; would kick at the abdomen and switch. Following this performance she went off her feed for a week. She then commenced eating a little but her appetite remained capricious and she passed blood-stained urine. At the time of urination considerable uneasiness was manifested by treading and switching. During the time this animal was under observation at the College she gradually lost flesh, her urine always contained pus, mucous, blood and tissue debris. A rectal examinaiton revealed a greatly enlarged right kidney and the *Corynebacterium* was cultured and identified from her urine.

Another case of this nature in which a more complete history was obtained is as follows: The owner purchased the animal in the spring of 1936. She was two years old and pregnant. Shortly after getting her home it was noticed that her tail was frequently smeared and encrusted with pus about the level of the vulva. She calved on July 17th following which she became unthrifty and by the middle of September she became badly affected. About October



Enlarged kidney and ureter from a Pyelonephritis case. Scale in inches. A normal kidney is only from 7-9 inches.

1st she went off her feed entirely but recovered somewhat through the administration of medicine. She was submitted to the clinic on October 15th. On examination she was found to be greatly emaciated, almost dry, the urine contained blood, pus, mucous and tissue detritus. Her right kidney was enormously enlarged and the corresponding ureter an inch in diamter. Bacteriological culture revealed *Corynebacterium*. The owner of this latter cow also had an older cow similarly affected the year before.

Except in those instances where there is a manifestation of renal colic there are no violent symptoms of any kind. The disease runs a chronic course with ultimate emaciation and anemia. Treatment is of no value except possibly as in the case mentioned at the first of this article where the infection was apparently confined to the bladder. In that instance the bladder was irrigated with a saturated boric acid solution a few times and an ounce of 5% argyrol solution afterwards injected into the bladder. It is obvious, however, that little can be done when the kidneys are involved.

It is of value, however, to be able to diagnose and recognize these cases and the chief diagnostic features are the painful urination and the altered character of the urine itself. The presence of pus, tissue debris and blood in the urine are significant. The chronic character of the disease and the progressive emaciation are also suggestive. A rectal examination in which the enlarged kidney and ureter can be palpated substantiates other findings and is most diagnostic.

TUBERCULOSIS IN A HORSE

F. W. Schofield and H. R. Potter

Tuberculosis in the horse is not only a rare disease, but also one which presents unusual difficulty in diagnosis. Early in the fall of 1936, a three-year-old Clyde gelding, which was suffering from some chronic and progressive disease, was brought to the College clinic for examination. A provisional diagnosis of pulmonary disease was made which, at post-mortem, proved to be tuberculosis.

History. The animal had been in the possession of the present owner for two years, he having purchased the gelding from a local farmer. In giving the history of the case the owner stated that the colt lacked vitality, although the appetite and general condition were good. The colt developed normally, and in the spring of 1936 was broken to work as a three-year-old. He was sluggish at work, easily fatigued and soon commenced to lose flesh, although being well fed.

During the warm summer weather, there was a noticeable loss of condition, with the development of mild dyspnoea. Work was now discontinued, and the horse turned out to grass. This did not result in the anticipated improvement, in fact, the condition became worse. A veterinarian was called to see the animal, who, after an examination, pronounced the condition to be kidney disease.

About one month before being brought to the clinic, the dyspnoea had become quite severe. The nostrils were dilated and the so-called asthmatic furrow well marked.

On inquiry it was discovered that the animal had never suffered from any acute respiratory disease. Neither had there been at any time a nasal discharge or cough.

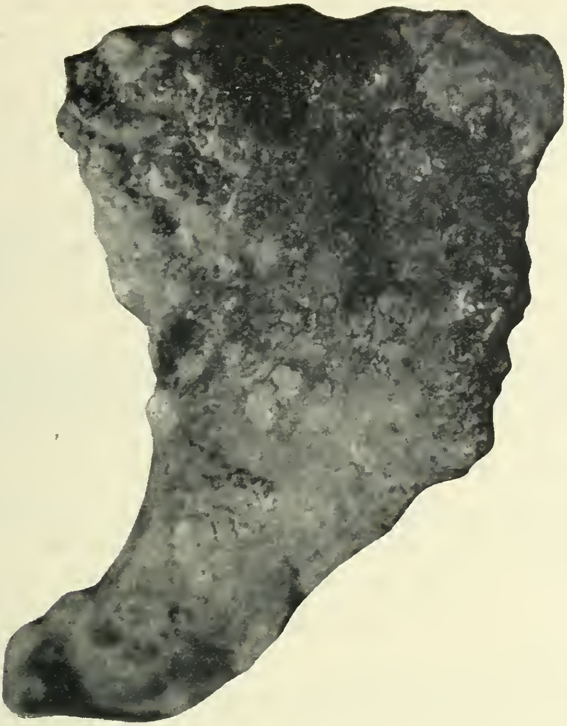
Clinical Examination. When admitted to the clinic for examination, the patient was quite emaciated. There was oedema extending from the sternum to the umbilicus, while the legs showed definite swelling, especially in the fore-limbs. The eyes were sunken and dull. Abdominal breathing was present, and the pleuritic ridge resembled that seen in the advanced stages of chronic pulmonary emphysema. The visible mucous membranes were pale and slightly icteric. The temperature was normal, the pulse 95 and soft. The respirations were 36 and laboured. Auscultation of the thorax revealed a modified vesicular murmur. There was no evidence of rales or bronchial exudate. No coughing occurred, neither were there any areas of consolidation as in an acute pneumonia. In the posterior lobe of the right lung some crepitation could be determined. The heart sounds were clear and distinct, although slight palpitation existed at times.

A tentative diagnosis of pulmonary disease of a subacute or chronic nature was made and the patient retained for observation. After two weeks, as the case was considered hopeless, it was decided to destroy the animal and make a careful post-mortem examination.

The following are the findings as reported by the Department of Pathology and Bacteriology:

GROSS PATHOLOGY

Abdominal cavity. The parietal *peritoneum* was extensively involved, showing thick flattened patches of what appeared to be fibrous tissue. Masses of such tissue had formed on the peripheral portion of the diaphragm. The *omentum* had been transformed into a coarse net, due to deposits of fibrin, in the meshes of which were countless numbers of miliary tubercules. The *spleen* was moderately enlarged and more extensively involvd than any other abdominal organ. The surface was covered with tubercules of all sizes which had formed in groups or masses, with occasional large isolated nodules. The lymph glands at the hilus were greatly enlarged and showed extensive caseation. Large tubercules which had formed within the organ protruded beyond the surface, causing an uneven and tumified appearance. The *liver* showed few gross lesions, but many tiny tubercules could be seen in the parenchyma. The *kidneys* showed a few lesions in the cortex. The lymphatic glands of all the abdominal viscera were markedly enlarged, some glands being three or four times the normal size. Ceseation was common. Calcification was not present in any of the lesions examined. In a few cases slight grating was detected on incision.



Original Photo by A. A. Kingscote

Spleen showing tubercular nodules.

Thoracic Cavity. In the *lungs* traces only of normal tissue remained. The lobes showed no tendency to collapse, were firm to the touch, grayish yellow in color and had a granular appearance due to the miliary lesions which were present. Some areas had been transformed into masses of fibrous tissue. No exudate was present in the trachea or bronchi. The over-lying *pleura* was thickened and the related lymph glands greatly enlarged. The parietal pleura was heavily studded with tubercules. The *heart* showed no typical tubercles, but several circumscribed areas of fibrosis were present, the most noticeable being at the apex. An irregular thickening of the endocardium was detected in the right ventricle.

HISTO-PATHOLOGY

The lung. The parenchyma had almost disappeared, its place being taken by fibrous tissue, histiocytes and leucocytes. The few remaining alveoli were emphysematous and their walls thickened. Areas of recent infection could be easily detected by the characteristic "nests" of endothelial and giant cells, the walls of the "nests" representing the boundaries of the changing alveoli. Areas of dense fibrous tissue, with a sprinkling of round cells and giant cells, represented the more progressive lesion. Ceseation was present but not common, and in such areas a fine deposit of lime salts could be detected. The changes were characteristic of a productive pneumonia.

Liver. Numerous miliary foci composed almost exclusively of endothelial and giant cells. A fibrous tissue reaction was apparent in the larger foci.

Omentum. Miliary tubercules were beautifully revealed. The central zone was comprised of giant cells. Surrounding these were a sprinkling of endothelial cells and small round cells, which were lightly encapsulated with fibrous tissue.

Kidney. No typical tubercles were seen, but foci of cell infiltration were present. Early capsular cirrhosis of the glomeruli was frequently observed.

Lymphatic Glands. Endothelial cell infiltration, with giant cell formation characterized the cellular reaction. New fibrous tissue and lymphocytes were not in evidence. Central caseation was common. A very slight deposit of lime salt had occurred.

Note. Comparing the histo-pathology of this case with the usual lesion observed in the cow, one is struck with the pronounced endothelial cell proliferation and giant cell formation. While the difference is purely one of degree, and does not represent any fundamental difference in tissue response, yet it is definite enough to warrant special mention.

The absence of calcification should also be noted. The rapid progress of the disease accounted in part at least for these characteristics.

The Type of M. tuberculosis Responsible for the Infection

Infected tissue was injected sub-cutaneously into a guinea pig and rabbit, and into the peritoneal cavity of a hen, with the following results:

Hen—Alive and well two months after the inoculation. The bird was then destroyed and examined. No evidence of tuberculosis.

Rabbit—There was progressive emaciation, with death following six weeks after the inoculation. Post-mortem showed the presence of severe generalized tuberculosis.

Guinea Pig—Died four weeks after the inoculation with generalized tuberculosis.

Cultures. Cultures were made on Petroff's medium. Growth was very slow and scanty, and devoid of pigment.

The organism was considered to be *M. tuberculosis* var. bovis.

Summary: The history of this case, the clinical observations made, and the opportunity of making a detailed and complete post-mortem examination provide a report of unusual interest. The origin of the infection has not been determined, but it is felt that contact with tubercular cattle or the drinking of tuberculous cows' milk while a foal may have been the source.

DISEASES OF SWINE

Report of an Investigation of Extensive Pig Losses in the County of Kent.

R. A. McINTOSH, M.D.V., B.V.Sc.

Kent County occupies the leading position in hog production in the Province. This occurs because the climate and soil are particularly favourable to the production of corn and other cereal grains. It is the custom of many of the farmers to have a number of sows farrowing in September and October, so that the young pigs will be weaned about the time feeder lots of cattle are purchased to fatten and then they are allowed to follow the cattle.

In December of 1936 very serious losses occurred on many farms about the time the pigs were three months old. The disease appeared to be infectious in nature for whole lots of pigs were affected similarly. The losses, however, were not always due to the same condition on different farms for some owners complained of a diarrhoeic condition, while others felt that a respiratory affection and coughing was the primary trouble.

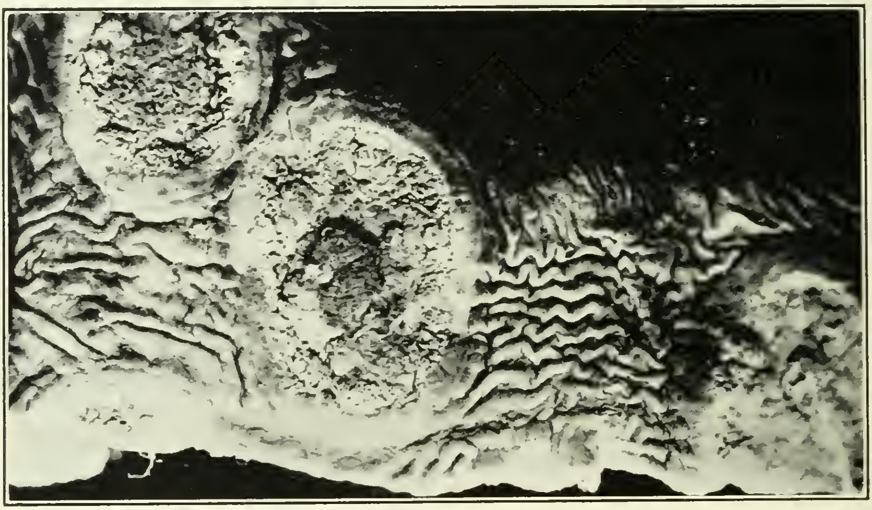
This investigation was made at the request of a number of residents of the County through the Provincial Live Stock Branch at Toronto, Mr. William Watson, of that Department, accompanying the writer when the examination of the different lots of pigs was made.

Eleven farms where disease was known to exist were visited and for the sake of comparison a few others where no losses had occurrd were also visited. On the eleven farms, out of 479 pigs farrowed and raised until they were about two or three months old, 199 were lost. The figures indicate the seriousness of the losses. While this investigation was not made when the losses were greatest, at the same time much was learned from it and also many diseased animals were seen.

From all of the information gained, the most common manifestation observed by the farmers was a diarrhea and apparently fever. If the affected animals did not die in a few days, the tendency was for them to develop lung trouble and coughing. Pigs affected in this way dying from time to time or else remaining unthrifty and chronically affected. Some of the pigs which showed respiratory disease also manifested intestinal disease and chronic diarrhea as well. A post-mortem examination of two of these revealed extensive ulceration of the caecum and colon. At some of the places visited round worm infestation was quite marked and appeared to be the only source of disease and here the losses were not so great, but runtiness and unthriftiness were evident. At other places, the owners complained of litter losses while the young were still on their mothers and in these instances anemia was the source of trouble. At still other places there was evidence of nutritional deficiencies manifested by stiffness and crippling. In a number of instances there was evidence of bad management in the matter of housing by overcrowding and a lack of cleanliness in the pens. Another common error was the use of coarse, indigestible food for little pigs when weaned. The practice of allowing pigs to follow corn-fed cattle is a custom that is not without danger, particularly if the pigs are not fed amply otherwise.

The fall of 1936 also the winter of 1937 was exceptionally mild and wet. This resulted in the pens and yards being very muddy and dirty and also in keeping the stabling quarters damp and excessively humid. These climatic features may have some bearing on the extraordinary prevalence of disease during the season.

In connection with this investigation five post-mortem examinations were held. In the first one, caecal ulcers and pleuro-pneumonia were found; in the second (a suckling), marked anemia; in the third, pneumonia; in the fourth, round worm infestation; and in the fifth, marked ulceration of the caecum and colon.



Intestinal ulcers. Colon of a pig.

From the information gained, the observations made, and the examinations conducted it is obvious that a variety of conditions were responsible for the losses which occurred. The most significant and common complaint of the farmers interviewed regarding the condition when it was at its worst was the diarrhea manifested when the pigs first took sick at about four weeks after weaning. Subsequently many of them became pneumonic. The caecal ulcers and pneumonia sequels are in keeping with the primary enteritis which on occasions is followed by ulceration of the intestines, and due to a lowered resistance, a pneumonia as well.

On the farms where no trouble existed one was at once impressed with the difference in the management, care, housing, and feeding of the pigs. This was so marked that one could not help but feel that a lack of knowledge in swine husbandry had much to do with the occurrence of disease.

Subsequently at a mass meeting held in Tilbury, on which occasion a large number of the swine breeders of both Kent and Essex Counties were in attendance, an explanation of the conditions found and recommendations as to the manner in which they could be avoided was made. Prof. W. R. Reek, of Ridgetown, also spoke on Feeds and Feeding.

A REPORT UPON TATTOOING ANIMALS

H. E. BATT, B.V.Sc.

At the request of a number of dog breeders, experiments in tattooing dogs has been carried out. The work has extended over six months, and upwards of fifty puppies and older dogs have been used. The object of these tests is to answer the following questions: (1) Was the marking practical and was its adaptation within the scope of the majority of breeders? (2) At what age is the marking best done? (3) Whereabouts on the dog is it best to put the marks? (4) What are the after effects of the marking? (5) What tools are best for the work? (6) Is the marking permanent?

(1) The answer to the first question is that the operation is simple and easily accomplished. Any intelligent person can do it with success if a few simple rules are followed.

(2) A dog of any age can be tattooed, but it has been found that it is best done as soon as the ears of the pup are large enough to have some room for the letters. In most breeds about two months is probably the best age. The larger breeds may be done at six weeks of age or less. Toys may have to be older on account of their small ears.

(3) The choice of the situation for the marking must be left to the breeder, but it would appear from our present knowledge that the marks are best placed on the inside of the ear. If a dog's ears are examined there will be found a spot, a little over one inch long and about half as broad, free from hair and wrinkles, situated about half way down from the tip of the ear and just above the folds that are about the opening of the external ear passage. It is in this situation or near it that the best results in marking will be obained. Do not place the mark too near the tip or too near the edge of the ear, as later on the hair will tend to mask the letters and make them somewhat harder to read.

Considerable work was done on marking on the belly. This can be easily done and the marks will show up well. A needle, activated by dry-cell electric batteries, was used. The only difficulty found was that the apparatus was somewhat cumbersome for a novice to use and we found it rather difficult to keep the letters and figures small and neat. This, however, could be overcome with practice.

(4) As to the immediate and after effects of tattooing, either with the ear marker or the needle, the operation on the ear is over in a second and in the great majority of cases the pup seems to have forgottn it in a minute or two. Tattooing on the belly is not resented by most pups, although some seem to struggle because of the restraint of holding them upon their backs. It takes about two minutes to do a careful marking with an electric needle. Care must be taken to set the needle so that it is about one thirty-second of an inch long. With such a depth little or no sensation seems to be felt.

There are little or no after effects either in the ear or on the belly. In one or two cases there was a slight thickening in the immediate area. This passed away in the course of a few days. In many instances no irritation occurred, and in forty-eight hours the marks showed up clearly and all signs of any irritation were absent. We saw no signs of pus or protracted irritation in any case, either in the ear or on the belly.

(5) What apparatus is best for the work? We had considerable trouble at first to procure a suitable instrument for ear-marking dogs. However, with the aid of the Ketchum Company of Ottawa, who went to considerable trouble and expense, a tool has been developed which seems to meet our requirements, as it does a quick, clean job and is easy to use. The marking ink is antiseptic, so that no previous washing or preparation of the area is required. The ink is applied to the small area inside the ear with a tooth brush, then the instrument is applied with one quick sharp squeeze, after which a little more of the marking fluid is rubbed into the marks with the tooth brush. The whole process is over in a few seconds. In regards to tattooing with the needle, the same marking fluid is used and is applied by dipping the point of the needle into the fluid from time to time. The fluid is an intense black but the marks will be a bright blue, due to the action of the tissue cells upon the pigment. Marking on the belly with the ear instrument is not very satisfactory, because of the distortion of the letters due to the stretching of the skin. This, however, might be overcome with practice.

(6) As far as can be judged, the marks are permanent and, if properly placed, are easy to read.

The above remarks are the result of several months work and it is the writer's opinion that marking in the ear is practical and, under ordinary conditions, free from any harmful after effects. It is possible that in a few cases infection may occur but it is believed that the danger is remote if proper care and instruments are used. So far as we observed, the process had no effect upon the set of the ear; indeed, it would seem impossible for it to do so when we take into consideration the very slight and transitory irritation that is produced.

While his report deals only with the tattooing of dogs, the same general procedure is applicable to the tattooing of all classes of live stock for identification purposes under the regulations required for registration by the National Live Stock Records.

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ANNUAL REPORT

OF THE

Department of Highways

ONTARIO

FOR THE FISCAL YEAR ENDING MARCH 31st
1937

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO

SESSIONAL PAPER No. 32, 1938

ONTARIO

TORONTO
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1938

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To The Honourable Albert Matthews, LL.D.,
Lieutenant-Governor of the Province of Ontario.

May It Please Your Honour:—

The undersigned has the honour to present herewith for your consideration the Report of the Department of Highways for the Fiscal Year ended 31st March, 1937.

Respectfully submitted,

T. B. McQuesten,
Minister of Highways,
Ontario.

Department of Highways, Ontario.
Toronto, February 23rd, 1938.

To The Honourable T. B. McQuesten, K.C., B.A., LL.B.,
Minister of Highway, Ontario.

Sir:—

I have the honour to present herewith Report on the activities of the Department of Highways for the Fiscal Year ended 31st March, 1937.

The Report covers operations and functions performed by the various departments, including King's Highways, Municipal Roads, Bridge Construction, Accounting and Motor Vehicles.

I have the honour to be, Sir,

Your obedient servent,

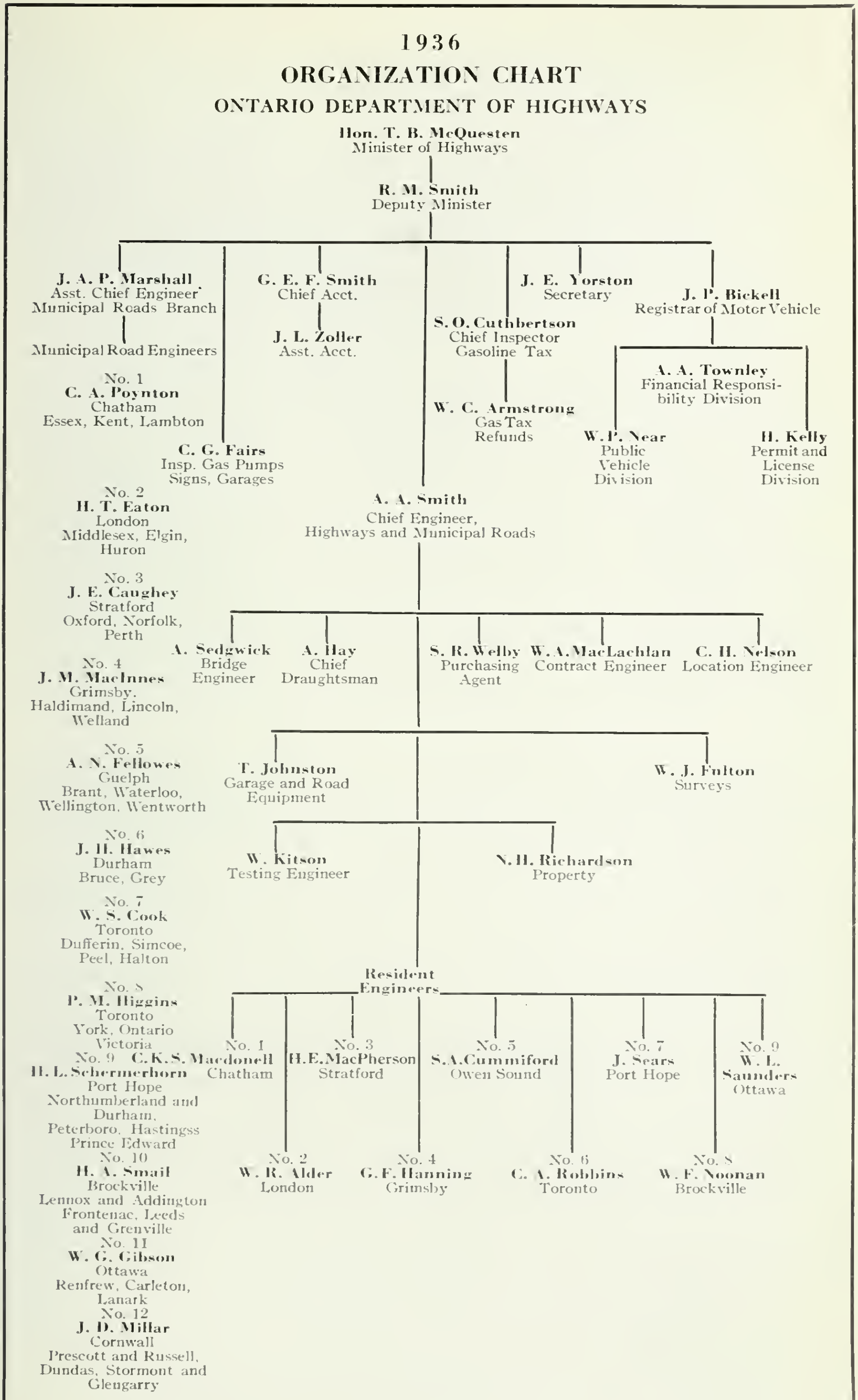
R. M. Smith,
Deputy Minister.

Department of Highways, Ontario.
Toronto, February 23rd, 1938.

1936

ORGANIZATION CHART

ONTARIO DEPARTMENT OF HIGHWAYS



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  - **R. M. Smith**, Deputy Minister
    - **J. A. P. Marshall**, Asst. Chief Engineer, Municipal Roads Branch
      - Municipal Road Engineers
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        - No. 2 **H. T. Eaton**, London, Middlesex, Elgin, Huron
        - No. 3 **J. E. Caughey**, Stratford, Oxford, Norfolk, Perth
        - No. 4 **J. M. MacInnes**, Grimsby, Haldimand, Lincoln, Welland
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      - **A. A. Townley**, Financial Responsibility Division
      - **W. P. Near**, Public Vehicle Division
      - **H. Kelly**, Permit and License Division

ONTARIO AND ITS HIGHWAYS

By R. M. Smith, Deputy Minister

During the twelve months ending March 31, 1937, both the revenue and expenditure of the Department of Highways showed an increase over that of the previous twelve months: Revenue by $2,093,054.41 and expenditure by $2,512,991.87, while the excess of revenue over expenditure for the current year is $17,203,390.12 as compared with an excess of $17,623,327.58 the previous year.

Construction work while not very extensive was of a high quality, indicative of approved tendencies in modern highway development. Several high level bridges, railway grade separations, and a considerable amount of permanent paving work was completed. The year saw a beginning made in the construction of the new type of dual highway whereby traffic lanes of opposite directions are divided by a boulevard. Safety for the motorist is the factor stressed in adopting these modern methods.

A net of 212.51 miles of highway was added to the Provincial system during the year.

New high records were made in all classes of motor vehicles registrations and drivers' licenses, with a corresponding increase in the revenue of this branch of the Department. The increase in registrations resulted also in a new high figure for gasoline taxes.

The Department gave considerable time and work planning and preparing for a long range development program which will be reflected in the work of future years.

Detailed reports of the activities of the several branches of the Department will be found on the following pages.

The administration of the Department of Northern Development came under the Department of Highways during the year but both Departments functioned as separate units, an amalgamation having been accomplished to become effective as of April 1, 1937.

REPORT OF THE HIGHWAYS ACCOUNANT
By G. E. F. Smith, Chief Accountant

To R. M. Smith, Esq.,
Deputy Minister of Highways.

The following is a summary of Expenditure and Revenue for the fiscal year April 1, 1936 to March 31, 1937:—

Expenditure

The King's Highways	$ 6,202,520.80
Grants to Counties	1,934,474.28
Grants to Townships and Indian Reserves	1,819,231.44
Grants to Connecting Links	95,454.09
Equipment Branch	81,219.77
Administration and Sundries	839,127.58
	$ 10,972,027.96

Revenue

Gasoline Tax	$ 15,761,876.97
Motor Vehicles	10,916,491.08
Road Assessments	1,365,067.48
Permits, Garages, Signs, Etc.	88,726.05
Interest	31,864.39
Sales of Property	6,805.83
Miscellaneous	4,586.28
	$ 28,175,418.08

As in previous years, the books of the Municipalities, accepting aid under the Highway Improvement Act, were audited by the Accounting Department.

REPORT OF GASOLINE TAX REVENUE
By S. O. Cuthbertson, Chief Inspector, Gasoline Handling Act

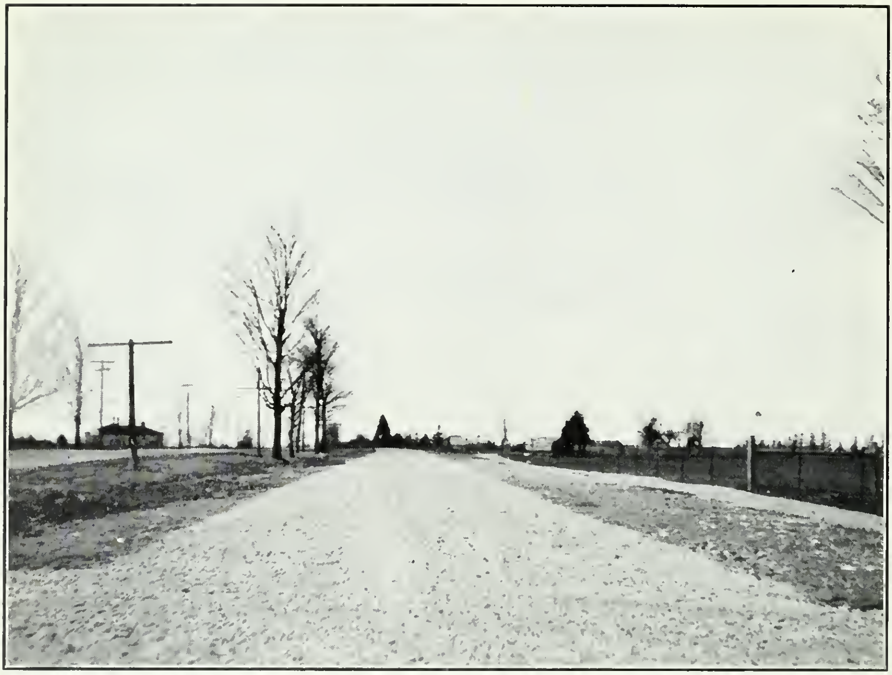
Mr. R. M. Smith,
Deputy Minister of Highways,

The gross gasoline tax collections for the fiscal year of the Province of Ontario from April 1st, 1936 to March 31st, 1937 (both dates inclusive) amounted to $17,201,669.29.

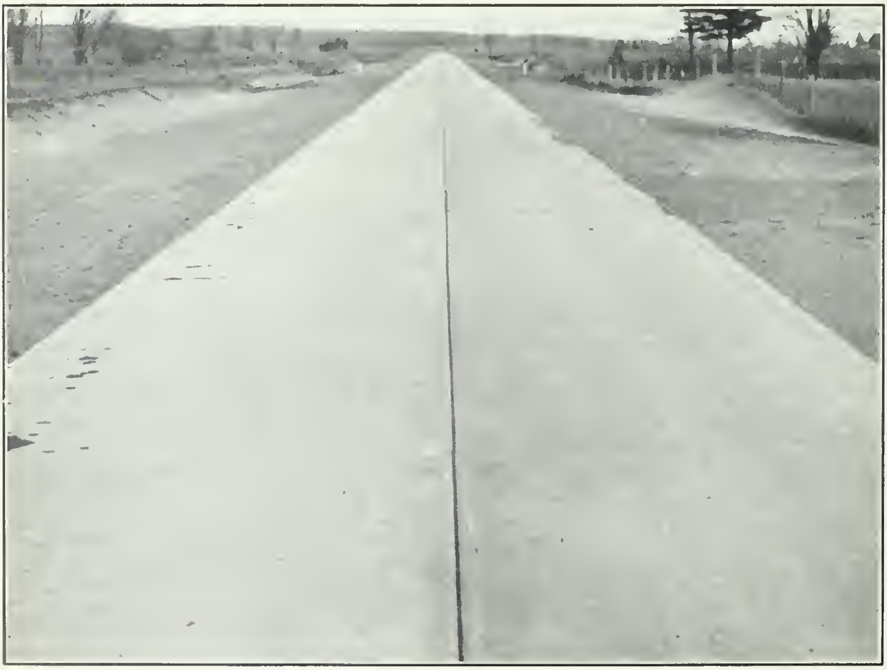
For the same period there were 52,484 claims for refund of gasoline tax dealt with in the Department, and of which claims there were $1,439,792.32 refunded by the Department. The refund claims were paid to farmers, manufacturers, motor boat users, cleaners and dyers, aeroplanes, etc. The gasoline tax is applicible to all gasoline purchased in the Province of Ontario irrespective of what use the gasoline is put to. Provision, however, is made for the relief from the tax to persons using gasoline for other purposes than propelling a motor vehicle on the Highways of the Province. The regulations of the Department, however, must be adhered to in order that a refund claim be given consideration.

The net gasoline tax revenue, after having paid the above mentioned refunds amounted to $15,761,876.97 for the fiscal period of the Province of Ontario from April 1st, 1936 to March 31st, 1937 (both dates inclusive).

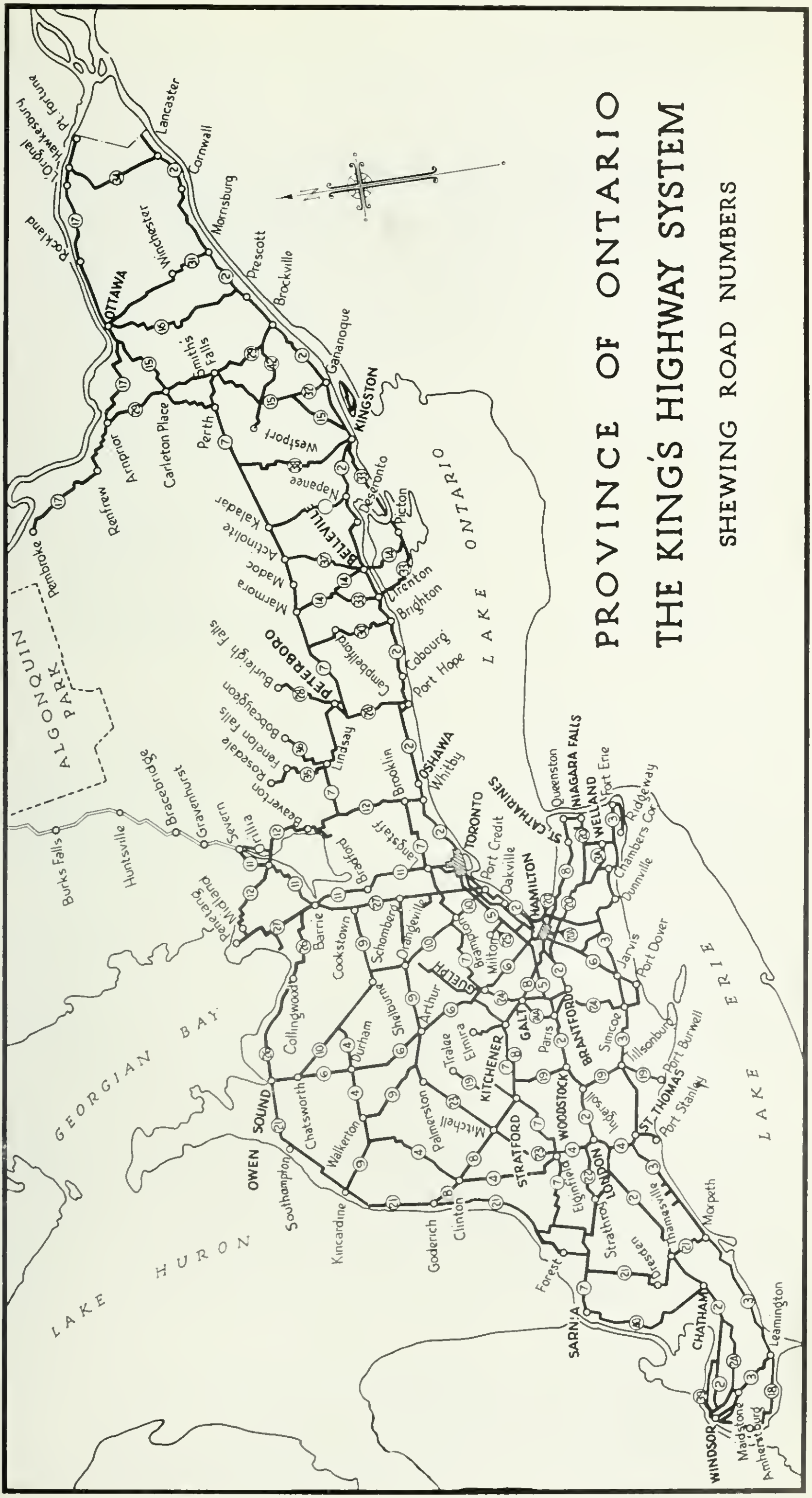
S. O. Cuthbertson,,
Chief Inspector Gasoline Handling Act.



No. 2 Highway.—¾ mile east of Woodstock showing Grading and Sidewalk on dual highway construction.



Looking east from West end of Alfred-Plantagenet Township Line Diversion.



PROVINCE OF ONTARIO

THE KING'S HIGHWAY SYSTEM

SHEWING ROAD NUMBERS

LAKE ONTARIO
LAKE ERIE
LAKE HURON
GEORGIAN BAY
ALGONQUIN PARK
OTTAWA
Rockland
L'Orignal
Hawkesbury
Pt. Fortune
Lancaster
Cornwall
Morrisburg
Winchester
Prescott
Brockville
Gananoque
KINGSTON
Smiths Falls
Perth
Westport
Carleton Place
Arnprior
Renfrew
Pembroke
Napanee
Deseronto
Picton
BELLEVILLE
Kaladar
Actinolite
Madoc
Marmora
Trenton
Brighton
Cobourg
Port Hope
Campbellford
PETERBORO
Burleigh Falls
Bobcaygeon
Fenelon Falls
Rosedale
Lindsay
Beaverton
OSHAWA
Whitby
Brooklin
TORONTO
Port Credit
Oakville
HAMILTON
ST. CATHARINES
Queenston
NIAGARA FALLS
WELLAND
Fort Erie
Ridgeway
Chambers Cor.
Dunnville
Jarvis
Port Dover
Simcoe
Tillsonburg
Port Burwell
ST. THOMAS
Port Stanley
Ingersoll
WOODSTOCK
BRANTFORD
Paris
GALT
GUELPH
KITCHENER
Elmira
Tralee
Milton
Brampton
Orangeville
Schomberg
Bradford
Langstaff
Cookstown
Barrie
Orillia
Severn
Gravenhurst
Bracebridge
Huntsville
Burks Falls
Midland
Penetang
Collingwood
Shelburne
Arthur
Durham
Chatsworth
OWEN SOUND
Southampton
Walkerton
Kincardine
Palmerston
Mitchell
STRATFORD
Goderich
Clinton
LONDON
Elginfield
Strathroy
Forest
SARNIA
Dresden
Thamesville
Morpeth
CHATHAM
Leamington
WINDSOR
Maidstone
Amherstburg
N

ANNUAL REPORT FOR 1936

KING'S HIGHWAY OPERATIONS

A. A. Smith, Chief Engineer

The year 1936 was not a big year from a construction standpoint, though considerably more paving was done than during the previous year.

No let up was allowed in maintenance operations and all highways were kept in first-class condition. This work included the resurfacing of over 200 miles of gravel road, and the treating of all gravel roads with either an oil dust layer or calcium chloride.

All pavement surfaces were looked after, this requiring about 220 miles of surface treatment for bituminous and macadam roads.

Shouldering, drainage, weed cutting, sign painting and road marking, etc., were carefully carried out.

In line with the regular maintenance program over 3,700 miles of roads were kept open by the Department for winter traffic. This required the employment of about sixty privately owned trucks, in addition to the large units provided by the Department which operated on the heaviest travelled roads as well as sections where snow conditions were the worst. Approximately 1,200 miles of snow fencing was erected which curtailed drifting to a great extent.

Road surfaces where icy conditions occurred, which due to the open winter was very frequent, were immediately treated with sand which had already had a small percentage of either salt or calcium chloride combined with it.

On 1936 contracts, labour was supplied to the contractors through the Provincial Department of Labour, the Contractors being allowed to supply 15% as key men. The Contractor was not required to use rotated labour as in 1935.

An eight hour day applied for six days a week working time. Minimum rates of pay for common labour and men and teams were embodied in the contract, with prevailing rates for all other classes to apply. Certified payrolls were furnished to the Department as required.

Under an agreement the Federal Government contributed to over 80 projects which were awarded by contract. On this work they paid 50% of the cost.

Practically no changes were made in pavement cross-sections or material requirements.

The year saw the beginning of dual highways, namely a double road surface with a centre boulevard. Considerable work was done between Toronto and Burlington on the Middle Road; grading for this type of road and also some paving from Brown's Line west and around Burlington. Grading for dual lane roads was also started between Homer and Stamford, east from Woodstock, Kingston Road Toronto east and Brockville westerly.

On the Middle Road two large bridges, further outlined hereafter, were constructed at Oakville and Bronte Creeks and two dangerous and crooked stream crossings eliminated. A grade separation north of Burlington was also constructed for highway traffic south.

The mileage of King's Highways at the end of 1936 was:—

Concrete Pavement	1444.87	miles.
Asphaltic Concrete Pavement	272.62	"
Mixed Macadam Pavement	588.65	"
Penetration Macadam	276.91	"
Retread and Mulch	93.24	"
Waterbound Macadam	193.72	"
Trafficbound Macadam	27.91	"
Stabilized	36.01	"
Gravel	809.68	"
	3743.61	"

During the Construction period the following work was done:—

Concrete Pavement	50	miles.
10′ Concrete Pavement	12	"
Asphaltic Concrete over Old Concrete	4.6	"
Mixed Macadam	10	"
Penetration Macadam	20.4	"
Retread	11	"
New grading on other than paving contracts	95	"

RESIDENCY No. 1 — CHATHAM

Road No. 2.

3½ miles of concrete pavement were constructed east of Tilbury, on a new location, which eliminated two very dangerous level crossings and also considerably improved the road alignment.

Road No. 18.

A 250-foot bridge was built over the Canard River north of Amherstburg.

Bituminous penetration pavement was laid between Harrow and Malden Centre, about 7 miles; this made the pavement on this road continuous from Windsor to Leamington.

Road No. 21.

A 320-foot structure was built across the Thames River at Thamesville, with a concrete sub-structure and a steel superstructure, the superstructure having the design of an inverted suspension bridge.

On Road No. 21A about 6 miles of grading and culverts were completed from Forest north.

Road No. 40.

Concrete pavement was laid through the villages between Wallaceburg and Sarnia, some of it being 30′ wide with curb and gutter and storm sewers.

Some rip-rapping, started the year before, was carried out along the St. Clair River as an erosion preventative.

The location of the proposed International Bridge at Point Edward was surveyed, and borings taken for foundation information for the proposed structure.

From New Glasgow, on No. 3 Highway, concrete pavement was laid north to Rodney.

All roads on this Residency were kept open for winter traffic.

About 7 miles of bituminous roads were surface treated, and all gravel roads were given an application of oil dust layer or calcium chloride.

RESIDENCY NO. 2 — LONDON

Road No. 2.

A grading contract was carried from Woodstock in preparation for a two lane pavement. This work was north of, and parallel to, the old pavement and allowed for a 30-foot boulevard, and by so doing preserved most of the trees.

Road No. 4.

Between Lambeth and Talbotville, the shoulders along the old concrete pavement were widened, and culverts lengthened, to accommodate the construction of a future three lane pavement.

The bridge over Dingman's Creek, south of Lambeth, and two bridges over Kettle Creek west of St. Thomas, were widened to a 40-foot width of roadway.

Middle Road West of Oakville Dual Highway Construction.

Cut looking west 2.1 miles East from Danforth and Highway No. 2 intersection.

Road No. 6.

Between Jarvis and Hagersville the old waterbound Macadam was resurfaced, for a length of 1.8 miles, with a cold laid bituminous surface; this was carried out also through the village of Hagersville.

Road No. 19.

In the villages of Eden, Straffordville, Vienna and Port Burwell, a bituminous penetration pavement was laid; also, between Straffordville and Port Burwell the subgrade, where springy, was tile drained.

During the winter season all roads on the Residency were kept open for traffic. Considerably the largest cost of winter maintenance was caused by sanding.

14 miles of bituminous surfaced roads were surface treated.

Residency No. 3 — Stratford

Road No. 4.

Concrete pavement was laid from 1½ miles south of Blyth to 3.7 miles north of Blyth; the balance of this road north to No. 9 Highway was given a light coat of gravel.

Road No. 7.

The C.N.R. Subway near New Hamburg was rebuilt, 50% of the cost of this work being paid by the Department.

About two miles of old concrete pavement between New Hamburg and Kitchener was resurfaced with cold laid bituminous material.

Road No. 9.

A large new culvert was put in at Clifford by day labour.

Road No. 19.

A 50-foot span rigid frame concrete bridge, three miles north of Milverton started in 1935 was completed. A similar bridge south of Tralee was constructed and the stream diverted.

Road No. 21.

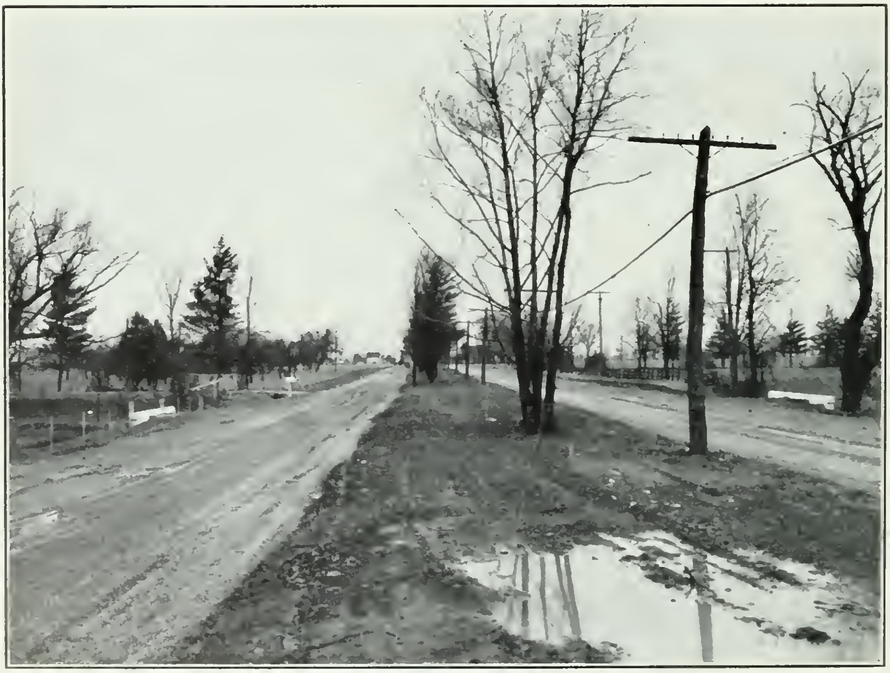
A premix gravel surface was laid from three miles south of Bayfield to Drysdale, slightly over five miles. Seven culverts were rebuilt between Kintail and Sheppardton.

Waterloo — Elmira Road.

Three diversions were put through, and considerable shouldering was done; also new culverts installed and the Right-of-Way widened to 66 feet.

All roads on the Residency were kept open for winter traffic.

About 19 miles of bituminous roads were surface treated, and all gravel roads were given an application, either of oil dust layer, or calcium chloride.



Middle Road west of Oakville Dual Highway construction.

Cut looking East, West of Scarboro overhead bridge. 4.3 miles east of Danforth and Highway No. 2 intersection.

RESIDENCY NO. 4 — GRIMSBY

Middle Road — (Toronto — Hamilton).

A new bridge was constructed north of Oakville on the new widened Highway, being a concrete arch structure, having two main arches and eight smaller ones; the main arches are 80 feet high, and have a span of 145 feet. The overall length of this structure is 615 feet, pavement width is 40 feet, with two six-foot sidewalks.

A very similar bridge was built over Bronte Creek. One mile of double pavement with boulevard was built from Campbell's Corners to Burlington Subway approach.

A grade separation bridge, at Middle Road and Burlington cut-off, was constructed.

9.4 miles of grading and culverts from Guelph Line to Trafalgar 7th Line were carried out, with 20-foot lanes having 10-foot shoulders, and a central boulevard of 30 feet, except for the narrowing at the approaches to the bridges. Trees were saved where at all possible.

1.2 miles of double lane pavement were completed between Brant Street and the Guelph Line; the old highway was utilized as the south lane, and a new 20-foot concrete strip was laid to the north, forming the west bound lane.

Homer — Stamford Road.

About 4 miles of grading was completed on a new Right-of-Way. The grade is 90 feet wide, for separate traffic lanes with boulevard. This road shortens the distance by about two miles.

Dundas Diversion.

A new road was graded, leaving Highway No. 2 at west limits of Hamilton, and cuts across country to join end of King Street, in Dundas.

This new road does away with the dangerous curves on Highway No. 8 through Binkley's Hollow and at Cotton Factory Hill. This was graded for a double highway with a 20-foot boulevard.

Wellandport Bridge and Diversion.

This diversion eliminated five sharp bends in the old road. The new bridge consists of a 100-foot truss span on concrete piers, with concrete deck, and two 25-foot concrete approach arches. Rip-rapping with one man stone was done at the south approach.

Elfrida — Binbrook Road.

1 mile of mixed macadam was laid north from Binbrook, the old 10-foot concrete slab was widened with black base to 20-foot wide, the whole was topped with 1″ of ashpaltic concrete, and the shoulders widened.

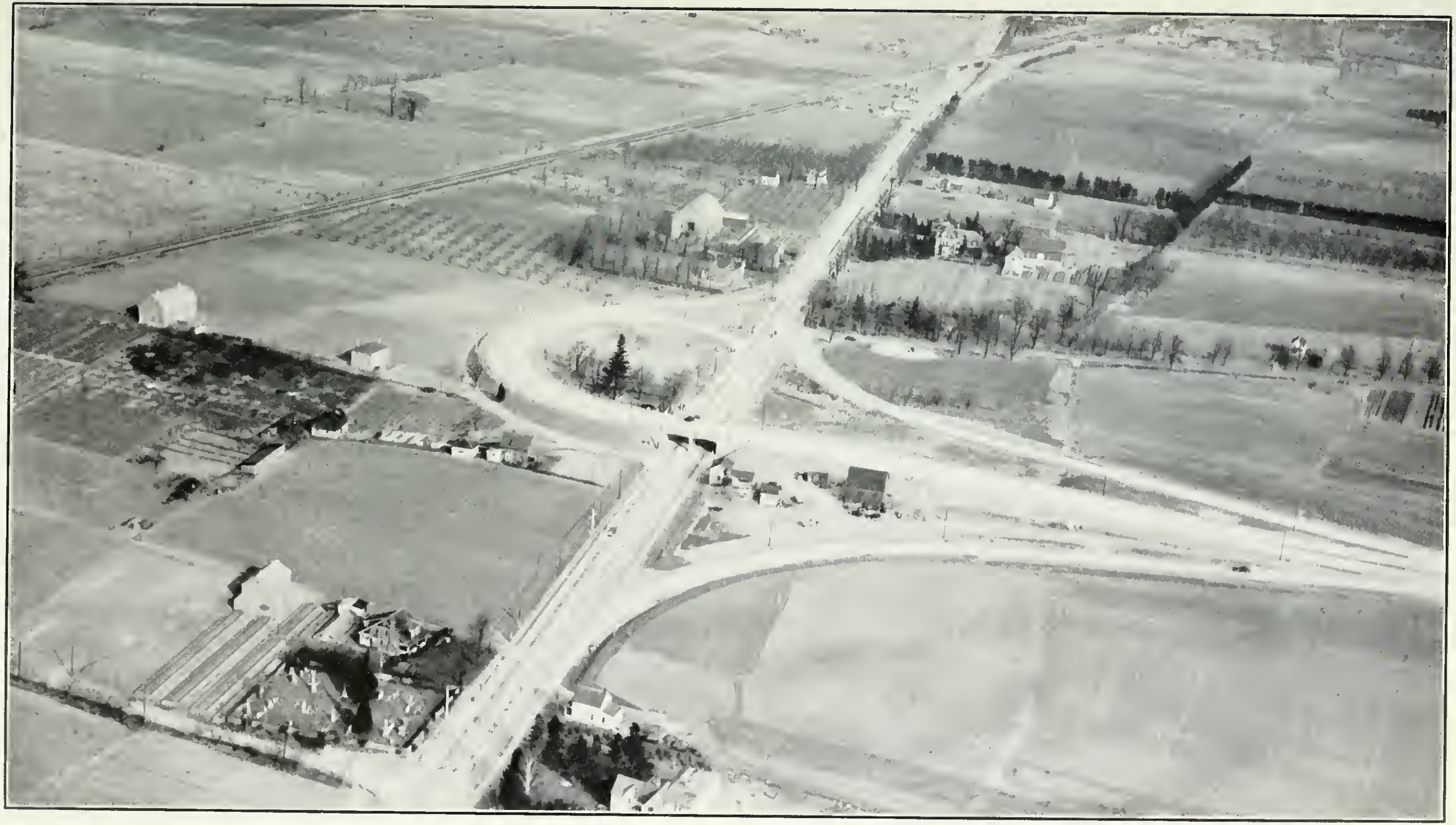
Brant's Pond.

To overcome an unsightly swamp and dumping ground, Brant's Pond was filled in, and the extension of the new double lane highway from Burlington to Niagara Falls can now be carried on a much improved alignment. This filling was done by a dredge operating in Hamilton Bay.

All roads on this Residency were kept open for winter traffic.

Fifty miles of bituminous and macadam roads were surface treated.

December 10th, 1936.—Fill on swamp showing the displacement of the muskeg. Verona-Hartington.



Aerial view of part of new Road between Toronto and Hamilton, showing in middle foreground the Burlington underpass at the "semi-clover leaf" connection between the new Niagara Falls Highway and the middle Road. In the background is shown the Burlington Subway under the C.N.R. Both structures completed in 1936.

Residency No. 5 — Owen Sound

Road No. 4.

In the town of Walkerton a concrete cantilever rigid frame bridge was started.

Road No. 10.

South of Flesherton 6½ miles of 10-foot concrete pavement was paved with another 10-foot strip and north of Markdale five miles of concrete were laid. Some grading was also done north of this with widened shoulders.

Five culverts were replaced south of Shelburne.

Road No. 26.

The western approach to Meaford was improved by a diversion of a half mile, which was paved with mixed macadam.

A grading contract between Cookstown and Alliston was started.

All roads on the Residency were kept open for winter traffic. Owing to light snow fall and the icy condition prevailing, sanding operations were very heavy.

Thirty-seven miles of surface treatment was done.

All gravel roads were treated with oil dust layer or calcium chloride.

Residency No. 6 — Toronto

Road No. 2.

On the Lake Shore Road East of Oakville one mile of the old concrete pavement was widened to 30 feet and surfaced with a 3″ asphaltic concrete top, with concrete curb and gutter and storm sewers. The shoulders were also widened.

From Long Branch to Port Credit 3.65 miles of the old concrete pavement was widened to 40-feet and the whole surfaced with a three-inch two-course asphaltic concrete surface. Curb and gutter and storm sewer were installed.

On the Kingston Road from the Cenotaph to Highland Creek, a contract for grading, culvert extension, storm sewers, curb and gutter and concrete pavement with a 20-foot boulevard was started. Over four miles of 20-foot concrete pavement was completed and 1 mile of 10-foot strip.

Middle Road.

Between Hurontario Street and Brown's Line 4.53 miles of 20-foot concrete pavement was laid on the south side and 4.53 miles of 10-foot strip was completed on the north side with a centre boulevard.

Between Shook's Hill and Oakville over 4 miles were graded and culverts extended to permit the construction later of two twenty-foot pavements and 30-foot centre boulevard.

Road No. 11.

One mile of penetration macadam was constructed at Holland Landing Hill on a revised alignment.

Blast ahead of fill to remove muskeg. Highway No. 38, Verona.

Road No. 12.

3.7 miles of concrete pavement and a subway under the Canadian National Railway were constructed between Midland and Port McNicoll.

6.6 miles of grading was completed between Coldwater and Warminster on a much improved alignment.

Road No. 27.

From Dundas Street north on Brown's Line over six miles of new grading was completed.

A contract was awarded for a penetration pavement from Bolton to Brown's Line; but the grading only was completed.

All roads in the Residency were kept open for winter traffic.

Thirteen miles of macadam and bituminous roads were surface treated and all gravel roads had application either of calcium chloride or oil dust layer.

Residency No. 7 — Port Hope

Road No. 2.

Grading and Culvert extensions for a dual lane highway were completed east from Belleville for 1¼ miles. This work included one bridge.

Road No. 7.

A mixed macadam pavement was laid through the villages of Norwood and Havelock; this was finished with a one inch trap rock surface and included storm sewer and curb and gutter.

Tile drainage was installed from Peterborough easterly twelve miles where necessary.

Several miles of concrete were laid on Lansdowne Avenue on the Peterborough cut-off.

Road No. 28.

About 12 miles of grading and culverts were completed between Lakefield and Burleigh Falls except for some trimming.

Road No. 30.

Six miles of penetration macadam was contracted for from Campbellford south, about two miles of which was completed.

Road No. 33.

At Carrying Place a two mile diversion was graded.

Between Picton and Glenora the road was realigned and graded.

The bridge over the Murray Canal which was started in 1935 was completed and opened for traffic.

Road No. 35.

A 7-mile grading contract between Fenelon Falls and Rosedale was completed with the exception of one mile of trimming.

No. 2 Highway.—Two miles East of Woodstock showing grading and sidewalk construction on dual highway.

No. 2 Highway.—One mile east of Woodstock showing grading and sidewalk on dual highway construction.

Road No. 36.

A contract for a retread pavement from six miles south of Bobcaygeon southerly was started and about 5½ miles complete.

All roads on the Residency were kept open for winter traffic.

Thirty-two miles of bituminous and macadam roads were surface treated.

All gravel roads were treated with oil dust layer or calcium chloride.

Residency No. 8 — Brockville

Road No. 2.

The grading for a dual lane highway with centre boulevard from Brockville westerly four miles was about 60% completed through a heavy granite area.

Between Cataraqui and Kingston one and a half miles of penetration macadam was surfaced with an inch of a cold bituminous mix.

Road No. 7.

Sixteen miles of road from Actinolite east were gravelled by day labour.

Road No. 15.

Mixed macadam was laid easterly from Perth for 5¼ miles but not sealed.

Road No. 33.

On a 15-mile contract for grading and penetration macadam from Kingston to Bath, a large proportion of the grading was completed and about three miles of pavement.

Steel and concrete bridges were erected at Little Cataraqui Creek, Collins Bay and Millhaven Creek.

Road No. 38.

From Elbow Creek near Parham, southerly to Godfrey railway crossing, over 6 miles of new grading was completed.

On a 2½ mile grading contract for a diversion northeast of Verona, the work was partially completed. Through the swamp the rock fill was settled by the use of dynamite.

Road No. 42.

Between Delta and Phillipsville 3.67 miles was graded and gravelled, and the grades and alignment were greatly improved.

Wolfe Island Road.

Stone was crushed and placed on this road.

All roads on this Residency were kept open for winter traffic.

Forty-five miles of macadam and bituminous roads were surface treated.

All gravel roads were treated with oil dust layer or calcium chloride.

RESIDENCY No. 9 — OTTAWA

Road No. 16.

A new high level bridge with concrete piers and abutments over the Rideau River at Beckett's Landing was contracted for. This was to replace the old bridge which had a swing span. The approaches were completed and the bridge about 70% finished.

Jordan River Bridge Road No. 8 Grimsby-St. Catharines Built 1936.

Road No. 17.

The Bonnichere River bridge in the town of Renfrew was opened to traffic.

The concrete pavement was completed between Renfrew and Arnprior and shoulders widened to the new standard.

A short section of concrete pavement completed the new pavement between Alfred and Plantaganet.

Road No. 29.

North from Pakenham over six miles of penetration macadam surface was laid and a considerable amount of tile drain installed.

Road No. 31.

North from Williamsburg 4½ miles of concrete pavement was laid. This makes the concrete pavement continous from Morrisburg to the north boundary of Dundas County.

Work was started on a subway under the Canadian National Railway main line north of Morrisburg.

Road No. 34.

A ten-foot concrete pavement was laid from Lancaster North for about six miles. Local crushed stone and imported sand were the aggregate for this work.

Crushed stone was placed on the section of road between Vankleek Hill and Alexandria.

All the roads in the Residency were kept open for winter traffic.

47½ miles of road was surface treated.

REPORT ON BRIDGES COMPLETED ON THE KING'S HIGHWAY

Arthur Sedgwick, Chief Bridge Engineer

Southern District. — During the year 1936 there were 28 bridges completed in the Southern District.

Particular mention may be made of the following more important structures:—

Burlington Subway: — This is a subway to carry the new four lane Middle Road Highway under the C.N.R. tracks. The very acute angle of intersection between highway and railway required two 111 foot plate girder skew spans with a centre pier.

Burlington Underpass: — This is a reinforced concrete twin span rigid frame structure to form the "semi-clover leaf" connection between the new Niagara Falls Highway with the Middle Road Highway.

Sixteen Mile Creek Bridge: — This is also on the Middle Road Highway and is a reinforced concrete structure consisting of three 135 foot concrete arch spans and five 50 foot concrete beam spans.

Twelve Mile Creek Bridge: — This is a similar structure to the previous one and also on the Middle Road with three 135 foot arch spans and five 50 foot beam spans. Each of these two bridges has a forty foot roadway and two 6 foot sidewalks.

Holland Landing Bridge: — This is a new bridge replacing two steel through truss spans with 15 foot roadway on Highway No. 11 over the Holland River. The bridge is unique in that it consists of creosoted timber pile bents supporting nine 27 foot steel beam spans with concrete floor. It has a thirty foot roadway and two five foot sidewalks. These timber bents required 60 foot B.C. Fir piles to reach a firm bearing. This type of construction is entirely new and affords a satisfactory and durable bridge at an economical cost and one which can be widened at any time to meet heavier traffic requirements.

Canard River Bridge: — This is a similar structure to the previous one but with five 50 foot steel beam spans. This structure is on Highway No. 18 in Essex County. This type of structure enabled the road to be straightened out at the river at a moderate cost.

Jordan River Bridge: — This is a new concrete bridge on Highway No. 8 replacing a very narrow steel bridge at the bottom of a steep crooked grade. It consists of an 80 foot spandrel filled concrete arch with a 20 foot flanking arch at either end.

Dingman's Creek Bridge Extension: — This is a steel Warren Truss bridge of 62½ feet span, which was widened from a twenty-three foot roadway to a forty foot roadway. The existing bridge was shifted over and one truss removed which was replaced with a box girder. The floor beams were extended from this girder and connected to the truss which had been shifted over to its required new position. Traffic was maintained over the bridge throughout the whole of the operations.

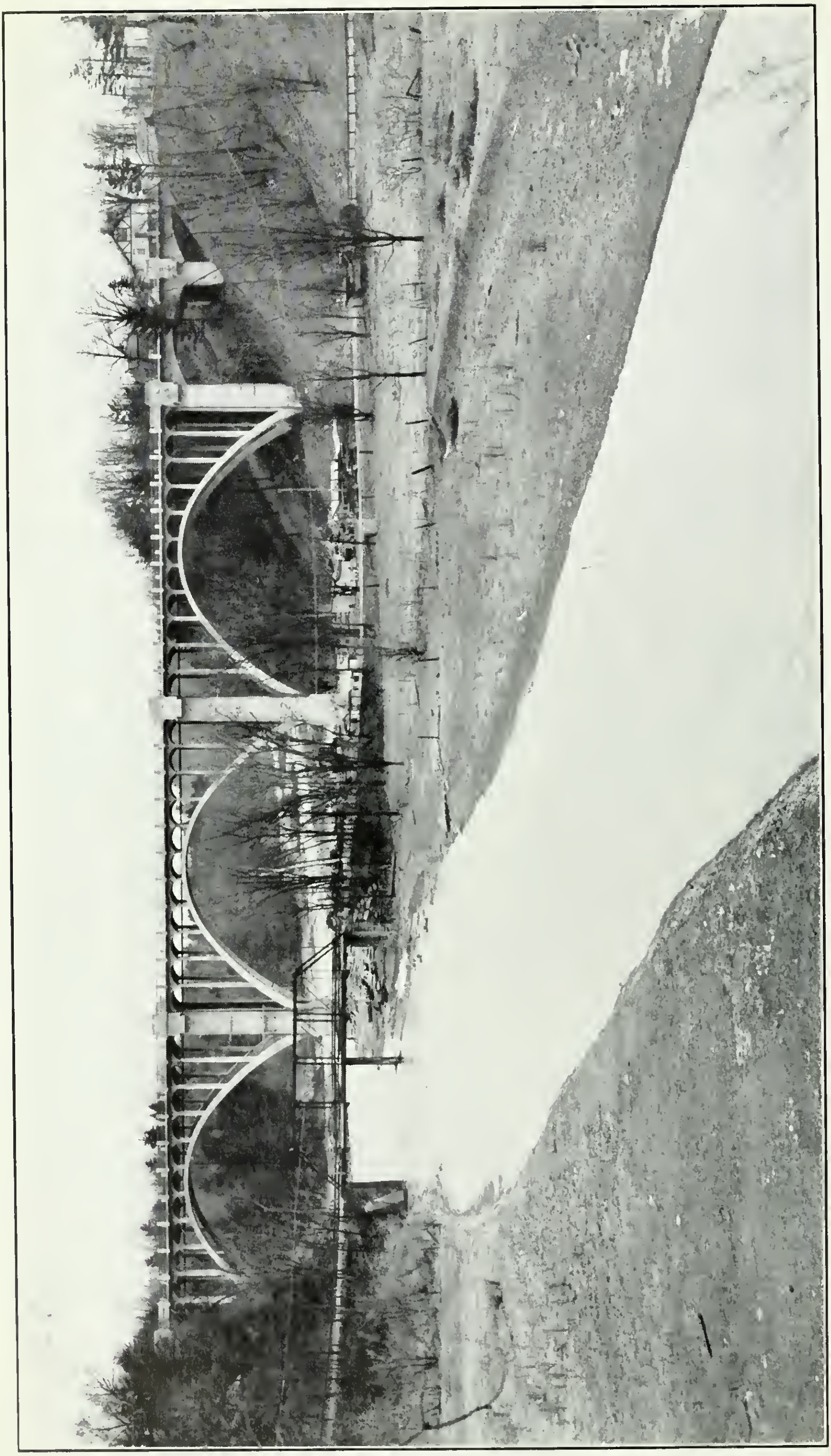
Peterborough Bridge: — This consists of a 214 foot span swing bridge removed from the old Welland Canal and a new 75 foot steel span and a 37 foot concrete span, the whole forming a new bridge over the Trent Canal and Otonabee River on Highway No. 7 at the easterly environs of the City of Peterborough. The swing span is electrically operated and is built higher than the old one so that most of the smaller crafts can pass under the same without the necessity of its being opened.

Murray Canal Bridge: — This is a new steel swing bridge replacing a timber structure on Highway No. 33 and eliminating bad turns in the road on the Canal bank.

Queen's Bridge Extension: — This is a widening of the bridges over Kettle Creek on Highway No. 4 on the boundary of St. Thomas. The existing bridge was a twin 80 foot concrete arch structure and the feature of this work was the widening of these arches with rigid framespans. The rigid frame principle permitted a larger saving in excavation and concrete work than would have been required if the original arch design had been extended.

BRIDGES COMPLETED ON THE KING'S HIGHWAY — DURING 1936 — SOUTHERN DISTRICT

Name	Type	Span	Road No.	Township	County
Bell's Creek	Concrete Rigid Frame	40′ 0″	2	Thurlow	Hastings
Black Creek No. 5	Concrete Rigid Frame	50′ 0″	19	Mornington	Perth
Burlington Subway	Steel Plate Girder	2 at 111′ 0″	Middle Road	Nelson	Halton
Burlington Underpass	Concrete Rigid Frame	2 at 27′ 8″	Middle Road	Nelson	Halton
Canard River	Steel Beams on Creosoted Timber Bents	5 at 50′ 0″	18	Anderdon	Essex
Collins Bay	Steel Beams	52′ 0″	33	Kingston	Frontenac
Dingman's Creek Extension	Steel Truss and Girders	62′ 6″	4	Westminster	Middlesex
Dodd's Creek Extension No. 2	Concrete Rigid Frame	30′ 0″	4	Southwold	Elgin
Dundas Creek	Concrete Arch	40′ 0″	2	Gore of Ancaster	Wentworth
Hess Creek No. 1 Extension	Concrete Rigid Frame	31′ 10″	31	Williamsburg	Dundas
Hess Creek No. 2 Extension	Concrete Rigid Frame	31′ 10″	31	Williamsburg	Dundas
Holland Landing	Steel Beams on Creosoted Timber Bents	9 at 27′ 0″	11	Gwillimbury E & W	Simcoe
Jordan River	Concrete Arch	18′ 10″—79′ 8″—17′ 5″	8	Louth	Lincoln
Little Creek No. 2	Concrete Rigid Frame	40′ 0″	33	Kingston	Frontenac
Little Sixteen Mile Creek	Concrete Arch	30′ 0″	Middle Road	Trafalgar	Halton
Midland Subway	Steel Plate Girder	69′ 0″	12	Tay	Simcoe
Millhaven	Steel Beams	52′ 0″	33	Ernestown	Lennox-Addington
Murray Canal	Low Steel Truss Swing Span Concrete Approach Span	Swing 146′ 3″ Approach 32′ 2″	33	Murray	Northumberland
New Hamburg Subway	Steel Plate Girder	96′ 11″	7	N. & S. Easthope	Perth
Oakville Culvert Extension	Concrete Arch	25′ 0″	2	Trafalgar	Halton
Peterborough	Through Steel Truss Swing Span Low Steel Truss Approach Concrete Beam & Slab Approaches	214′ 0″ 75′ 0″ 37′ 0″	7	Monaghan	Peterborough
Queen's Bridge Extension	Concrete Arch	2 at 80′ 0″	4	Yarmouth	Elgin
Renfrew Bridge	Concrete Beam & Slab	3 at 30′ 4″ 2 at 25′ 0″	17	Horton	Renfrew
Sheridan Arch Extension	Concrete Arch	30′ 0″	Middle Road	Trafalgar	Halton
Sixteen Mile Creek	Concrete Arch Ribs Concrete Beam & Slab	2 Arch Spans at 132′ 8″ 5 Beam Spans at 48′ 3″	Middle Road	Trafalgar	Halton
Toronto Twp. Extension	Concrete Rigid Frame Arch	26′ 0″	Middle Road	Toronto	Peel
Twelve Mile Creek	Concrete Arch Ribs Concrete Beam and Slabs	3 Arch Spans at 132′ 8″ 3 Beam Spans at 48′ 3″	Middle Road	Trafalgar	Halton
Wellandport No. 2	Concrete Rigid Frame	34′ 8″	Bismark to Beckett's Bridge	Gainsborough	Lincoln



Bronte Bridge over Twelve Mile Creek. Middle Road, Toronto-Hamilton Highway. Completed 1936.

1936

Report upon the work of the Municipal Branch for the year 1936

J. A. P. Marshall, Chief Engineer of Municipal Roads

COUNTY ROADS

Provincial aid to counties on road improvement is given through County Road Systems under The Highway Improvement Act.

Since the passing of The Highway Improvement Act in 1901 and to the end of 1936 a total of $130,767,711.66 has been expended on construction and maintenance of county roads, of which the Province has contributed $61,623,563.37. This includes the county expenditure during 1936, on which the provincial subsidy was paid in 1937.

At the end of 1936 the Province was paying subsidies to the counties on 8,306.3 miles of county roads — approximately 15 per cent. of the total road mileage in the area covered by the County Road System.

Expenditure on county roads in 1936 was as follows: —

	Total Expenditure	Provincial Subsidy
Construction:—		
County Roads	$ 1,369,957.71	$ 684,966.82
Maintenance:—		
County Roads	2,068,230.82	1,033,977.81
Total Expenditure	$ 3,438,188.53	$ 1,718,944.63

The work on which the above expenditure for construction was made included the following: —

Gravel or Stone	123.26	miles.
Surface-treated gravel or stone	121.80	"
Low-cost bituminous surfaces	65.97	"
Mixed macadam and asphaltic concrete	3.24	"
Cement concrete	4.42	"
Total	318.69	"

Bridges over 10-foot span	48
Steel Arch and concrete culverts	40
Pipe and tile culverts	799

Construction Work

A detailed list of the important work undertaken by the various counties is found further in this report grouped in districts.

Maintenance Work

Bituminous Surface Treatment	329.19	miles.
Dust Prevention Treatment (oil)	167.10	"
Dust Prevention Treatment (calcium)	584.09	"
Dust Prevention Treatment (salt)	2.85	"
Clay-gravel stabilization (calcium)	74.69	"
Clay-gravel stabilization (salt)	19.25	"
Gravel and Crushed Stone Resurfacing:—		
(a) Pitrun gravel applied	184,331	cu. yds.
(b) Crushed gravel applied	277,409	"
(c) Crushed stone applied	71,785	"
Snow Removal — Season 1936-1937:—		
(a) Mileage of road kept open with mechanical equipment	4577	miles.
(b) Snow fence erected	402.55	"

County Suburban Roads

The mileage of suburban roads is 750.5 miles. The expenditure at the end of 1936 amounted to $24,805,184.23 of which the cities and separated towns have contributed $6,538,903.32, or five per cent of the total expenditure made on the County Road System.

In 1936 the expenditure on County Suburban Roads was $752,369.72 of which the Province contributed $376,164.56 and the cities $188,102.58.

EXPENDITURES ON SUBURBAN ROADS — 1936

Name of County	Mileage	Totals	Government Grants 50%
Brant	24.7	$ 15,936.60	$ 7,968.30
Carleton	89.6	109,765.36	54,882.68
Elgin	18.3	2,458.66	1,229.33
Essex	37.5	6,071.40	3,035.70
Frontenac	28.5	27,039.73	13,519.86
Grey	34.2	20,446.61	10,223.31
Kent	9.5	3,268.24	1,634.12
Lambton	12.0	3,353.63	1,676.81
Lanark	7.2	255.00	127.50
Leeds and Grenville Smith's Falls	4.0	5,969.41	2,984.71
Brockville	6.3	2,879.80	1,439.90
Lincoln	12.3	4,783.54	2,391.77
Middlesex	35.2	8,356.79	4,178.39
Ontario	13.5	9,903.54	4,951.77
Oxford	3.9	671.36	335.68
Perth	7.5	1,668.79	834.39
Peterboro	40.0	26,370.15	13,185.08
Waterloo Kitchener	6.2	9,772.18	4,886.09
Galt	7.5	10,049.65	5,024.83
Welland Niagara Falls	9.9	4,273.93	2,136.96
Welland	6.5	2,888.14	1,444.07
Wellington	13.0	6,432.29	3,216.14
Wentworth	61.5	62,325.14	31,162.57
York	261.7	407,429.78	203,694.60
Totals	750.5	$ 752,369.72	$376,164.56

District No. 1 — *Counties of Essex, Kent and Lambton.*

Essex — During the season 1.25 miles of plant-mix asphalt mulch was laid on County Road No. 6 at Stoney Point. Draining, grading and the surfacing of one mile on County Road No. 3 north of Cedar Creek in S. Gosfield Township was carried out. Maintenance work was carried out to a high standard.

Kent — 1.5 miles asphalt mulch was laid on County Road No. 3 from King's Highway No. 2 to Bothwell and 1.5 miles of a similar surface on Road No. 15 south of King's Highway No. 3; 1.1 miles in the Village of Erieau; 1.5 miles of tar mulch was laid on County Road No. 12 south of King's Highway No. 3.

About 5 miles of gravel road south from Charing Cross to Cedar Springs was stabilized with clay and calcium chloride.

Lambton — On County Road No. 2 in Con. IV in Euphemia relocation work was carried out entailing 4,000 cubic yards cut. Three culverts were extended on Road No. 9 in Bosanquet.

In preparation for a more permanent surface 2.5 miles of Plank Road (Sarnia Sub. Area) was scarified and the old plank removed. The reconditioning of one power maintainer, and the purchase of another practically eliminated horse patrols on maintenance.

District No. 2 — *Counties of Elgin, Middlesex and Huron.*

Elgin — The McIntosh Bridge over the Thames River between the Counties of Elgin and Middlesex was reconstructed. The total over all length of the four spans is 313 feet, 11.5 inches, and the piers of concrete were placed on creosote piles.

In Port Stanley the approaches to the Bridge were improved, and on County Road No. 30 in Yarmouth Township 0.5 miles of grading and gravelling was completed.

Maintenance work was efficiently carried out over the entire system.

Middlesex County — Plover Mills Hill on County Road No. 26 in West Nissouri Township was graded. This work will be completed in 1937. 15 miles of light grading was carried out on various roads of the County Road System. 40 pipe culverts were installed.

Maintenance work was carried out over the entire system.

Huron — At Grand Bend a stream diversion was undertaken and a new bridge was constructed which greatly improved the corner.

About ten miles of salt stabilization was laid. Maintenance work was efficiently carried out over the entire system.

District No. 3 — *Counties of Norfolk, Oxford and Perth.*

Norfolk — Construction 8.25 miles of grading was undertaken, and 5.75 miles of gravelling. 1,354 feet of perforated pipe for drainage purposes was laid. 9,705 cubic yards of crushed gravel was used and 35,500 cubic yards of earth moved in the grading operation.

9 pipe culverts and 2 arch abutment culverts were built.

Maintenance, 65,800 square yards of retreading mulch roads. 150,500 square yards double surface treatment, and 515,400 square yards of various types of tar stabilized surfaces. In all, 251,000 gallons of bituminous material was used, and 20,118 cubic yards of commercial stone and crushed gravel was used in resurfacing operations.

Oxford — Four narrow bridges were replaced by modern structures.

8 miles of bituminous surface treatment was carried out and 6.6 miles were stabilized with clay and calcium chloride.

Twenty miles of snow fence was erected on County Roads.

Maintenance work was efficiently carried out over the entire system.

Perth County — Five miles of new grade was constructed and metalled. Forty-one pipe culverts were installed.

District No. 4 — *Counties of Haldimand, Lincoln and Welland.*

Haldimand — The York Bridge extension was carried out. This work consisted of replacing wooden trestle with three spans each of 47 feet span of rigid frame type reinforced concrete. Other extensions were made to the Kohler and Nagel Bridges on County Road No. 8.

17 miles of bituminous surface treatment was carried out as well as 6.5 miles of stabilized roads with calcium chloride.

Maintenance work was well carried out over the entire system,

Lincoln — Double bituminous surface treatment of 8 miles was undertaken and 34 miles of bituminous surface treatment. The Rockway Bridge was widened to 32 feet and a very sharp reversed curve in the road was improved. The Sink Hole Bridge on the county line between Lincoln and Wentworth was built in a new location. In the St. Catharine Suburban Area 0.2 miles of concrete pavement were widened.

General maintenance work has been efficiently carried out over the entire system.

Welland — Three miles of county roads were widened to twenty foot width with bituminous penetration and earth shoulders widened to correspond. Eleven miles of bituminous surface treatment was carried out, and fifty miles of bituminous cold patching was done. Alignment was improved at the Netherby Corner.

DISTRICT NO. 5 — *Counties of Brant, Waterloo, Wellington and Wentworth.*

Brant — Two miles of grading and metalling was done, and 0.5 miles of underdraining. Two miles of road was stabilized with calcium chloride and six miles with salt. One reinforced concrete bridge of 18 foot span was constructed.

Maintenance work was well carried out with power maintainer and using a truck with underslung blade over the entire system.

Waterloo — The Hartman Bridge in the Village of New Hamburg of 136 foot span of steel and concrete was constructed. Very little construction work was done in this county during 1936, but maintenance work was efficiently carried out and the high standard was kept up. A very commendable feature is that of tile draining all roads as they break up in the spring.

125 miles were kept open during the winter, costing $60.12 per mile including snow fences and repairs.

Wellington — During the season of 1936, 8 miles of grading was undertaken and this mileage was also surfaced with gravel. Thirty miles of road were treated with bituminous dust layer, and fifty miles were treated with calcium chloride.

Maintenance work was efficiently carried out over the entire system.

Wentworth — Nine miles of grading was undertaken on the County Road System. In the Hamilton and Wentworth Suburban Area 5 miles of retreads was built. On County Road No. 11 the Hildreth Bridge was constructed.

Maintenance work was efficiently carried out over the entire system which reflects the high standard of organization here.

DISTRICT NO. 6 — *Counties of Bruce and Grey.*

Bruce — 3.67 miles of bituminous retread pavement was laid between Walkerton and Paisley, and about 1 mile in the Villages of Tiverton and Wiarton. Approximately 5 miles of new grade was constructed at various locations throughout the system consisting chiefly of hill cutting. Four new reinforced concrete bridges were constructed by contract.

1.25 miles of bituminous double surface treatment was carried out on the Elora Road immediately north of King's Highway No. 9.

The entire system was maintained in a very creditable manner considering the prolonged drought during the season. 70 miles of gravel road was treated with calcium chloride in addition to 6 miles of stabilization west of Hepworth.

Grey — Several sharp corners were eliminated on the Beaver Valley Road through Collingwood and Euphrasia Townships. On the Owen Sound Suburban Area 2.87 miles of bituminous retread pavement was laid on the Leith Road, and hill cutting undertaken in Sarawak Township north of Owen Sound.

Crushed gravel from the County pit was delivered to the roads at an average cost of 51.7 cents per cubic yard.

Maintenance work was well carried out, and 75 miles of gravel roads were treated with calcium chloride.

DISTRICT NO. 7 — *Counties of Dufferin, Halton, Peel and Simcoe.*

Dufferin — Maintenance work was the principal county activity during 1936. About 10 miles of semi-stabilized road was built using calcium chloride.

About 21,000 cubic yards of crushed gravel was used in resurfacing costing .69 cents per cubic yard laid on the road.

Halton — The ten-foot concrete pavement from Bronte Station to King's Highway No. 2 was widened out to eighteen feet by building a four-foot strip of cold mix on each side of the original pavement. The bituminous pavement through the Village of Glen William was extended nine hundred feet. Two concrete bridges and two concrete culverts were built.

Maintenance work was well carried out over the entire system. 18,500 cubic yards of crushed gravel was used in resurfacing. 8.44 miles of gravel roads were treated with calcium chloride.

Peel — Two one mile sections of a pre-mixed bituminous gravel mulch pavement twenty feet in width were laid.

A level railway crossing in Albion Township was greatly improved by the cutting of the banks along the railway, widening the roadway out to twenty-eight feet, and extending a concrete culvert.

A bituminous surface treatment was applied to 3.5 miles of road. Also as a dust prevention treatment, oil was used for 8 miles and calcium chloride applied to 5 miles of county roads.

The entire system was well maintained.

Simcoe — During the 1936 season, Piper's Hill in Adjala Township was reduced to a seven per cent. grade and widened out to twenty-eight feet. This necessitated extending one concrete culvert 32 feet and removing 12,000 cubic yards of earth.

Seven miles of road was treated with oil and twenty-eight miles with calcium chloride for preventing dust. The County also erected 23 miles of snow fence and used 16,000 cubic yards of road metal in resurfacing.

Maintenance work was well carried out over the whole system.

DISTRICT NO. 8 — *Counties of Ontario, Victoria and York.*

Ontario — 3.75 miles of bituminous retread was laid on County Road No. 10 in Uxbridge Township, on County Road No. 16 from King's Highway No. 12 westerly, on County Road No. 2 Port Perry southerly and on County Road No. 4 from King's Highway No. 12 westerly. 1.25 miles was also laid in the Oshawa Suburban Area on County Road No. 2 in Con. VI East Whitby Township.

Maintenance work consisting of gravel resurfacing on twenty-five miles and oiling 13.5 miles of gravel roads. 13.8 miles were stabilized using calcium chloride and 2.8 miles were treated with calcium chloride as a dust layer.

Victoria — Grading and gravelling was carried out on County Road No. 4 for 1.2 miles in Ops Township, and also on Road No. 21, 1.2 miles in Con. III and IV, Fenelon. Relief Labour from the Town of Lindsay was used on these works.

26 miles of county roads were resurfaced. Stabilization with clay and calcium chloride was carried out on 20 miles and dust layer (calcium chloride) applied on 14 miles.

York — The main construction projects during 1936 were (1) 1.74 miles of bituminous macadam pavement was laid on Bathurst Street from Glencairn Avenue to Wilson Avenue, (2) 2.73 miles of bituminous gravel mulch was laid on the Aurora Road from Potageville westerly, (3) 3.92 miles of cement concrete was constructed on the York Road from the Kennedy Road to Oriole, (4) 3.72 miles of grading and gravelling with necessary structures was carried out on Steeles Avenue from Yonge Street to the Don Mills Road.

Maintenance work consisted of 50 miles of gravel and stone resurfacing, 50 miles of bituminous surface treatment, 17 miles of dust-layer (calcium chloride) applied, and the keeping open of 300 miles of winter roads.

DISTRICT NO. 9 — *Counties of Hastings, Northumberland and Durham, Peterborough, and Prince Edward.*

Hastings — The county roads in the Village of Tweed were surfaced with bituminous pre-mix retread and the pavement in the Village of Marlbank widened with the same material.

A new concrete and steel bridge of 40 foot span was constructed to replace the narrow bridge at West Huntingdon on County Road No. 1, also the Bridges at Stoco were strengthened by the addition of heavy steel stringers and concrete floor placed on one.

Maintenance work consisted of dust laying, resurfacing throughout the system.

Northumberland and Durham — Many old culverts of wooden construction across various roads were replaced with steel culverts. The construction of the pier common to the swing span of the Wallace Point Bridge (Boundary of Northumberland and Durham and Peterborough) was commenced late in the year.

General maintenance work was carried out and the roads kept in a fair condition by power maintainer and resurfacing with gravel. Approximately 13 miles of paved roads were surfaced.

Peterborough — A bituminous gravel mulch was laid in Warsaw Village, and also 1 mile east of the City of Peterborough on Warsaw Road. Doxe's Bridge in Chandos Township consisting of concrete and steel span of 73 feet was constructed.

Maintenance work was efficiently carried out over the entire system.

Prince Edward — 3.45 miles of bituminous retread was constructed.

Roads were maintained, the gravel by power maintainer, and the macadam by surface treatment and patching.

DISTRICT NO. 10 — *Counties of Frontenac, Lennox and Addington, Leeds and Grenville.*

Frontenac — 1.5 miles of mixed macadam was laid on Division Street in the Kingston Suburban Area. 3.8 miles double surface treatment was carried out in three sections—one on the Woodburn Road No. 12 in Pittsburg Township, one on the Harrowsmith Road No. 5, and also south of Harrowsmith on No. 3B.

The timber bridge at Hawley's Swamp Road No. 6S was replaced by a covered bridge.

During the year the Kingston Suburban Area purchased a spraying machine to be used for patching, and also weed killing.

Maintenance work was efficiently carried out over the system.

Lennox and Addington — Two miles of bituminous retread was laid and three miles of waterbound macadam surface treated.

Mention should be made of the death of Mr. T. V. Anderson who died as a result of an accident. Mr. T. V. Anderson's services as County Road Superintendent will long be remembered for the splendid part he played in the improvement of roads in this county.

Leeds and Grenville — 2.75 miles of bituminous retread was laid. 0.75 miles being in the Smith Falls Suburban Area, one mile on County Road No. 13 at Phillipsville, and one mile on County Road No. 3A from King's Highway No. 2 towards Ivy Lee. One mile of bituminous gravel mulch was laid on County Road No. 24 east of Kemptville, and one block of concrete pavement laid in the Village of Cardinal.

Maintenance work was carried out over the entire system.

DISTRICT NO. 11 — *Counties of Carleton, Lanark and Renfrew.*

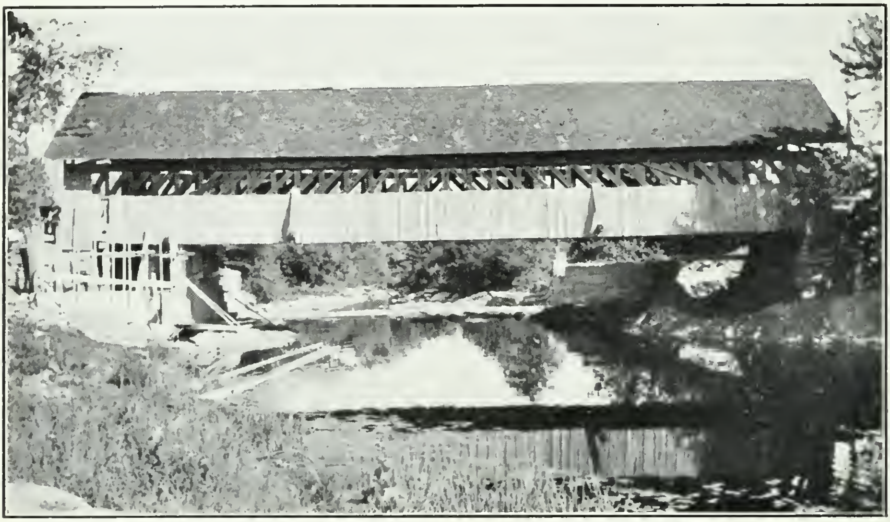
Carleton — Construction of the Richmond Road through Westboro was undertaken as well as the widening of surface and shoulders on part of Richmond Road. Heavy grading was carried out on the River Road.

The Suburban Roads Commission continued their policy of stabilizing gravel surfaces preparatory to paving.

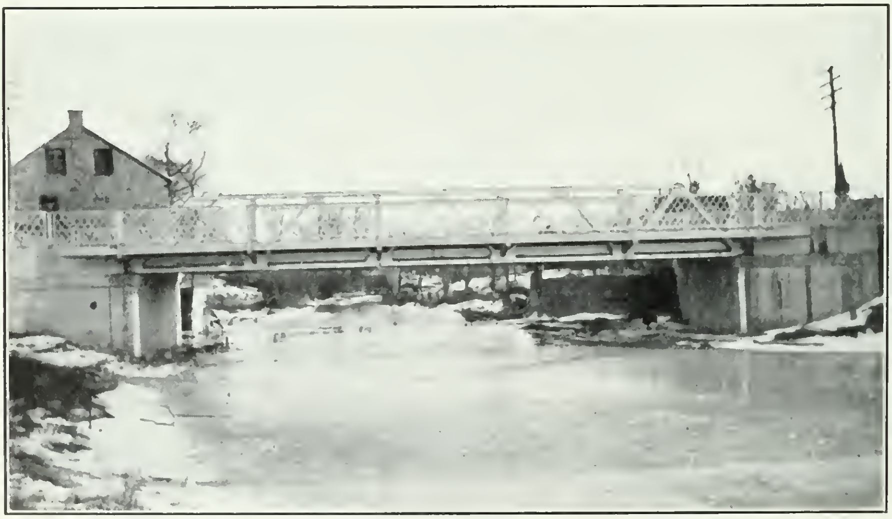
Last of its kind in Stormont, Dundas and Glengarry Counties, and probably in Ontario, the old covered bridge at Martintown, shown in the accompanying photographs, is being demolished to make way for a modern steel structure. While the wooden bridge is perfectly sound, with the exception of a little rot at the abutment ends, it was not strong enough to carry heavy truck traffic, as the St. Andrews-Martintown County Highway is now such an important road through Glengarry, and a new bridge became necessary.

Actual records are lacking, but it is believed that the covered wooden bridge was built in 1862, five years before Confederation, as a connecting link in the old King's Highway from Montreal to Toronto. The King's Road was built as a military precaution, to facilitate the rapid movement of troops, but was never called upon to serve that purpose.

The original bridge preceding the covered structure, was swept away when the River Aux Raisin (Black River) flooded its banks in 1861 or 1862. At that time Martintown was known as McMartin's Mills, and was a thriving little centre. The mill pond created by the dam under the bridge, provided a source of water power for small textile and grain mills which played an important part in the life of the community, and many general stores and blacksmith shops reflected the prosperity which they created.



Covered Bridge, Martintown, Glengarry County. One of the last covered bridges in Ontario. Replaced 1936.



Steel Bridge replacing old covered Bridge at Martintown.

Lanark — Considerable maintenance work was done by power machinery, and the road surfaces are in fair condition. The Smith Falls-Merrickville Road is now completed with bituminous top throughout.

2.5 miles were stabilized using calcium chloride.

Renfrew — A reinforced concrete and steel bridge 36 foot span was built at Forresters Falls. Plans for a large bridge over the Bonnechere River at Burnstown were started.

Considerable maintenance was carried out over the entire system and the county roads appear in good condition.

DISTRICT NO. 12 — *Counties of Prescott and Russell, Dundas, Stormont anl Glengarry.*

Prescott and Russell — A crushed gravel surface was placed on County Road No. 15 in Township of Cumberland, and on the Russell-Cambridge Boundary.

Considerable cold patching was done in an effort to hold rapidly breaking bituminous roads. Road No. 13 was surface treated for eight miles from Vankleek Hill easterly. Extensive repairs were made to the Castore Bridge on County Road No. 5.

Dundas, Stormont and Glengarry — The covered bridge at Martintown in Glengarry County after 75 years service was replaced with a reinforced concrete and steel structure of 72 foot span. Twelve miles of bituminous pre-mix retread pavement was laid in one and two mile sections throughout the county. One and three quarter miles of grading completed on Roads No. 8 and No. 18, Townships of Williamsburg and Lancaster.

Surface treatment was applied to 72 miles of bituminous roads. Maintenance work was efficiently carried out over the entire system.

ROAD CONFERENCE

The Twenty-Second Annual Road Conference was held on the 17th and 18th of February, 1936, and was largely attended by the various municipal officials. This annual interchange of experience and opinions is creating a great interest among the officials. Over two hundred were registered at the conference held in Forrester's Hall, College Street, Toronto.

In addition the Ninth Annual District Conference was held in London in March 1936 comprising the Middlesex, Elgin and Huron District, and the Eighth Annual Conference was held in Chatham also in March 1936 comprising the Essex, Lambton and Kent District. These smaller gatherings are very valuable supplement to the larger one and the friendly exchange of experiences in these districts thus made possible are believed by this Branch to be of great practical benefit to all those participating.

TOWNSHIP ROADS

The total approved expenditure in 1936 of the 343 townships receiving aid under the Highway Improvement Act amounts to $2,947,614.15. Subsidies amounting to $1,232,974.17 were paid through the Highway Department.

The following shows the growth of provincial aid to townships on road improvement under the provisions of The Highway Improvement Act:—

1916	$ 1,241.71	towards Supt's salary.
1917	1,608.72	“
1918	1,910.59	“
1919	2,620.00	“
1920 (184 townships)	340,973.38	commencement of aid
1921 (294 “)	708,486.91	on improvement.
1922 (312 “)	649,601.47	
1923 (315 “)	614,037.88	
1924 (320 “)	638,940.11	
1925 (272 “)	988,633.29	
1926 (295 “)	1,317,146.17	
1927 (307 “)	1,619,169.74	
1928 (324 “)	1,802,640.64	
1929 (337 “)	2,105,741.41	
1930 (342 “)	2,451,334.10	
1931 (344 “)	1,805,658.51	
1932 (343 “)	1,315,025.55	
1933 (338 “)	988,342.09	
1934 (338 “)	1,229,523.31	
1935 (339 “)	1,219,153.18	
1936 (343 “)	1,232,974.17	
	$ 21,027,381.91	

BRIDGES

A comprehensive analysis of all county and township bridges and culverts was carried out and completed. This schedule shows the number and size of such structures already built to a reasonable standard, and gives similar information including costs for those structures which will need to be built within the next few years.

RAILROAD CROSSINGS

During the year a survey was made of all railroad crossings on both county and township roads by the various district engineers of this Branch.

REGULATIONS

During 1936 the County Road Regulations and Township Road Regulations were revised and brought up to date and distributed to the various officials.

NEW FEATURES

The Department publishes, as a matter of interest, a statement showing the typical taxation on farms of 100 acres taken from information out of the county and township levies. This comparative statement is made up by taking the total local assessment of a typical township in the county showing the total taxes paid by the individual tax payer on this 100 acres and shows the amount of road taxes including King's Highways, County Roads and Township Roads.

INDIAN RESERVES

During the year 1936, the expenditure made on Indian Reserves was $39,368.52 on which the Department subsidy amounted to $17,963.64. Thirteen Indian Reserves are participating in Departmental assistance under the Highway Improvement Act.

Indian Reserve		**Expenditure**
Alnwick	$	474.36
Cape Crocker		3,452.83
Caradoc		7,222.08
Kettle and Stony Point		1,354.21
Moravain		263.62
Mud Lake		311.15
New Credit		1,246.77
Rice Lake		169.70
Sarnia		1,219.96
Saugeen		1,583.58
Six Nations		16,488.44
Tyendinaga		4,466.45
Walpole Island		1,115.37
	$	39,368.52

CONCLUSION

The county engineers and superintendents of the various counties and suburban commissions along with the township road superintendents are making a great contribution to the improvement of municipal roads throughout Ontario, and this Department acknowledges with appreciation the kindly co-operation of all officials in this splendid work for the welfare of the people of Ontario.

APPENDICES

Nos. 1 to 15

APPENDIX

DETAILS OF CONSTRUCTION KING'S

County	Bit. Mixed Method	Culverts and Extensions Built		Bridges and	Miles of Grading and	Miles of
		Culverts Built	Extensions	Subways	Shoulders	Gravelling
Brant					1.	8.
Bruce				1		44.3
Carleton				1		
Dufferin		5			.5	9.76
Elgin		16		2	8.2	9.
Essex		1	1	1	.2	7.1
Frontenac	1.64	4				
		45 C.I.P.	3	2	10.5	3.87
Grey	.5	1	32		13.5	36.81
Haldimand		1				
Halton		49				
		2 C.I.P.	15	2	14.53	
Hastings		6		1	1.25	5.82
Huron	5.2	7			15.	38.6
Kent				1	.2	18.6
Lambton		3	2		6.5	67.3
Lanark	5.01	1	1			
Leeds and Grenville		10				
		10 C.I.P.	10		10.06	4.71
Lennox and Addington		4				
		16 C.I.P.		1	9.86	8.95
Lincoln	.3	13				
		6 C.I.P.		2	3.	
Middlesex		9		1	5.	30.
Norfolk						
Northumberland and Durham		2			5.	
Ontario						
Oxford		10			3.5	4.3
Peel		1	23		5.95	8.95
Perth				2	.2	15.
Peterborough	4.4	1				
		51 C.I.F.			7.	10.6
Prescott and Russell					2.05	
Prince Edward		9				
		39 C.I.P.			6.1	
Renfrew		1	23		22.72	
Simcoe		16				
		19 C.I.P.		1	12.35	27.53
Stormont, Dundas and Glengarry		1	5		4.1	9.
Victoria	5.5	7				
		23 C.I.P.			11.8	13.3
Waterloo		7			8.6	2.
Welland		8 C.I.P.				
		12			3.	
Wellington		1				
Wentworth	1.7	9 C.I.P.				
		6	9	1	2.2	
York		1 C.I.P.				
		28	22		20.97	

No. 1

HIGHWAYS, APRIL 1st, 1936 — MARCH 31st, 1937

Miles of Traffic Bound Macadam	Miles of Bitumen Penetration	Miles of Asphaltic Concrete	Miles of Concrete Pavement	Lin. Ft. of Guard Rail	Lin. Ft. Storm Sewers and Tiling	Miles of Surface Treatment	Miles of Gravel Road Maint.	Miles of New Snow Fence Erected
....	....	....	....	....	....	....	8.	.07
....	....	1.2	....	....	2600.	1.3	63.5	....
....	....	....	....	736.25	3000.	23.55	....	.12
....	....	....	....	....	400.	....	9.76	....
....	4.	....	4.2	....	49400.	....	9.	13.4
....	7.1	....	....	....	63000.	7.7	7.1	1.2
4.82	3.9	....	....	740.	1854.	29.	....	12.12
....	....	....	20'5. 10'7.	400.	22169.	12.8	36.81	2.5
....	2.5	....	....	....	....	7.1	....	10.5
10.3	....	1.2	4.33	60.	52500.	20.45	3.65	15.43
18.5	....	....	....	....	259.	13.	65.	3.5
....	....	....	5.2	10560.	31680.	4.	61.25	23.
....	....	....	3.5	....	....	9.5	18.6	.6
....	....	....	....	....	34000.	....	67.3	5.6
....	5.4	....	....	141.3	2250.	7.6	....	....
....	....	....	....	1267.	4107.5	3.4	11.5	4.56
....	....	....	....	11985.	206.	5.2	....	11.79
....	....	....	....	....	....	....	....	6.8
....	....	....	....	....	....	6.	40.2	1.8
....	....	....	....	....	....	4.	....	.6
....	2.	....	....	2600.	....	....	21.2	2.5
....	....	....	....	....	....	....	21.74	....
3.5	....	....	....	....	....	9.	4.3	13.5
....	....	3.25	....	....	8267.	14.1	14.15	5.93
....	....	....	....	6336.	....	5.	37.53	5.
....	....	....	2.3	12000.	3900.	....	46.23	10.5
....	....	....	2.05	500.	4630.	9.4	5.	....
6.1	....	....	....	....	....	9.	....	4.6
....	....	....	4.5	660.	3875.	4.2	21.	.49
....	....	....	3.7	5990.	1000.	....	88.68	15.24
2.2	....	30.	9.47	347.5	2465.	10.3	4.3	1.2
....	....	....	....	....	6700.	....	15.5	14.5
....	....	....	....	....	2640.	2640.	....	13.2
....	....	....	....	....	....	....	....	5.7
....	....	....	....	....	....	8.5	....	....
....	....	.25	....	....	3200. s.s. 49009. Tile	31.06	....	2.1
800 ft.	1.	.4	5.45	1150.	10465.	4.	9.95	11.91

APPENDIX No. 2
GROSS EXPENDITURE BY COUNTIES
April 1, 1936 to March 31, 1937

County	Construction	Maintenance	Total
BRANT:—			
Highway No. 2	$ 3,472.31	$ 8,473.58	$ 11,945.89
" No. 5	4,197.06	3,199.93	7,396.99
" No. 24	2,980.02	7,299.26	10,279.28
" No. 24A	543.35	1,452.98	1,996.33
Burford Road	8,269.72	8,046.98	16,316.70
Total	$ 19,462.46	$ 28,472.73	$ 47,935.19
BRUCE:—			
Highway No. 4	$ 24,047.92	$ 8,611.30	$ 32,659.22
" No. 9	4,754.75	10,642.39	15,397.14
" No. 21	30,502.70	29,090.87	59,593.57
Total	$ 59,305.37	$ 48,344.56	$ 107,649.93
CARLETON:—			
Highway No. 15	$ 686.21	$ 12,733.51	$ 13,419.72
" No. 16	66,094.00	17,345.87	83,439.87
" No. 17	3,807.33	15,402.31	19,209.64
" No. 29	7,243.21	4,662.15	11,905.36
" No. 31	9,379.54	4,638.46	14,018.00
Total	$ 87,210.29	$ 54,782.30	$ 141,992.59
DUFFERIN:—			
Highway No. 9	$ 3,943.37	$ 5,881.41	$ 9,824.78
" No. 10	7,967.67	9,800.94	17,768.61
Orangeville-Schomberg	524.08	24.10	548.18
Total	$ 12,435.12	$ 15,706.45	$ 28,141.57
ELGIN:—			
Highway No. 3	$ 27,239.22	$ 19,445.85	$ 46,685.07
" No. 4	62,958.15	4,272.87	67,231.02
" No. 19	100,186.49	7,762.83	107,949.32
New Glasgow-Rodney	130,526.16	762.85	131,289.01
Eagle-West Lorne	1,898.51	360.38	2,258.89
Wallacetown-Dutton	1,017.29	458.40	1,475.69
Total	$ 323,8 5.82	$ 33,063.18	$ 356,889.00
ESSEX:—			
Highway No. 2	$ 2,669.87	$ 6,322.32	$ 8,992.19
" No. 2A	9,090.05	5,621.25	14,711.30
" No. 3	902.47	8,647.27	9,549.74
" No. 3B	394.69	1,850.45	2,245.14
" No. 18	179,615.03	9,426.96	188,041.99
" No. 39	1,334.12	5,928.03	,262.15
Pelee Island	17,380.22	211.61	17,591.83
Total	$ 211,386.45	$ 38,007.89	249,394.34
FRONTENAC:—			
Highway No. 2	$ 173,851.37	$ 8,377.12	$ 182,228.49
" No. 7	9,390.48	14,139.86	23,530.34
" No. 15	533.52	19,443.89	19,977.41
" No. 33	96,588.06	1,664.21	98,252.27
" No. 38	200,284.87	20,526.80	220,811.67
Wolfe Island	15,159.17	2,345.44	17,504.61
Total	$ 495,807.47	$ 66,497.32	$ 562,304.79

County	Construction	Maintenance	Total
GREY:—			
Highway No. 4	$ 5,105.17	$ 16,809.67	$ 21,914.84
" No. 6	11,238.63	22,256.63	33,495.26
" No. 10	215,549.63	15,392.00	230,941.63
" No. 21	4,009.60	5,241.85	9,251.45
" No. 26	22,582.82	16,893.03	39,475.85
Total	$ 258,485.85	$ 76,593.18	$ 335,079.03
HALDIMAND:—			
Highway No. 3	$ 2,001.88	$ 5,888.15	$ 7,890.03
" No. 6	28,532.15	14,624.48	43,156.63
Darkie Side Road	2,403.51	1,544.02	3,947.53
Total	$ 32,937.54	$ 22,056.65	$ 54,994.19
HALTON:—			
Highway No. 2	$ 72,452.19	$ 5,399.41	$ 77,851.60
" No. 5	15,944.53	15,235.83	31,180.36
" No. 7	1,199.23	10,826.34	12,025.57
" No. 25	171,472.34	3,105.16	174,577.50
Queen Street	647,353.94	2,979.83	650,333.77
Highway No. 20 to Highway No. 25 at Burlington new Diversion	169,148.34	2.25	169,150.59
Total	$1,077,570.57	$ 37,548.82	$1,115,119.39
HASTINGS:—			
Highway No. 2	$ 60,252.23	$ 19,756.71	$ 80,008.94
" No. 7	8,766.58	16,179.61	24,946.19
" No. 14	51,793.01	16,002.41	67,795.42
" No. 33	1,259.10	1,661.57	2,920.67
" No. 37	18,177.39	17,977.89	36,155.28
Total	$ 140,248.31	$ 71,578.19	$ 211,826.50
HURON:—			
Highway No. 4	$ 121,600.76	$ 13,722.25	$ 135,323.01
" No. 8	1,917.11	5,856.15	7,773.26
" No. 9	97.54	365.72	463.26
" No. 21	111,727.82	23,468.49	135,196.31
" No. 23	1,425.68	2,056.57	3,482.25
Preliminary Survey	234.69	....	234.69
Total	$ 237,003.60	$ 45,469.18	$ 282,472.78
KENT:—			
Highway No. 2	$ 108,989.20	$ 11,986.97	$ 120,976.17
" No. 3	2,841.56	10,342.23	13,183.79
" No. 21	80,152 48	10,123.06	90,275.54
" No. 40	19,465.79	9,978.96	29,444.75
Total	$ 211,449.03	$ 42,431.22	$ 253,880.25
LAMBTON:—			
Highway No. 7	$ 12,841.80	$ 14,803.24	$ 27,645.04
" No. 21	14,468.55	12,819.26	27,287.81
" No. 21A	35,448.99	2,399.29	37,848.28
" No. 22	116.97	2,621.19	2,738.16
" No. 40	225,053.47	21,669.74	246,723.21
Sarnia N. Lake Shore Road	18.55	....	18.55
Sarnia-Port Huron Bridge	5,559.64	....	5,559.64
Total	$ 293,507.97	$ 54,312.72	$ 347,820.69

County	Construction	Maintenance	Total
LANARK:—			
Highway No. 7	$ 12,730.07	$ 10,330.07	$ 23,060.14
" No. 15	100,510.43	9,421.22	109,931.65
" No. 29	60,591.44	8,502.79	69,094.23
Total	$ 173,831.94	$ 28,254.08	$ 202,086.02
LEEDS AND GRENVILLE:—			
Highway No. 2	$ 103,448.00	$ 18,021.36	$ 121,469.36
" No. 15	282.48	16,635.67	16,918.15
" No. 16	55,227.79	9,978.18	65,205.97
" No. 29	1,411.57	8,687.92	10,099.49
" No. 32	2,505.82	5,674.81	8,180.63
Forthton-Westport	47,961.49	4,952.54	52,914.03
Preliminary Survey	3,459.89	....	3,459.89
Total	$ 214,297.04	$ 63,950.48	$ 278,247.52
LENNOX AND ADDINGTON:—			
Highway No. 2	$ 7,081.95	$ 6,711.10	$ 13,793.05
" No. 7	9,733.76	5,940.37	15,674.13
" No. 33	118,056.13	7,089.06	125,145.19
" No. 41	23,119.59	11,211.03	34,330.62
Amherst Island	8,646.76	....	8,646.76
Total	$ 166,638.19	$ 30,951.56	$ 197,589.75
LINCOLN:—			
Highway No. 8	$ 92,128.17	$ 11,537.29	$ 103,665.46
" No. 8A	380.79	432.80	813.59
" No. 20	37,183.97	8,721.14	45,905.11
Total	$ 129,692.93	$ 20,691.23	$ 150,384.16
MIDDLESEX:—			
Highway No. 2	$ 6,868.82	$ 17,807.10	$ 24,675.92
" No. 4	32,782.27	10,410.57	43,192.84
" No. 7	2,406.95	18,522.62	20,929.57
" No. 22	1,057.33	6,093.48	7,150.81
" No. 23	2,348.20	3,387.32	5,735.52
Delaware-Strathroy	1,760.94	1,814.53	3,575.47
Total	$ 47,224.51	$ 58,035.62	$ 105,260.13
NORFOLK:—			
Highway No. 3	$ 1,583.63	$ 9,388.54	$ 10,972.17
" No. 6	485.00	2,216.97	2,701.97
" No. 19	151.73	451.25	602.98
" No. 24	3,278.16	4,452.17	7,730.33
Total	$ 5,498.52	$ 16,508.93	$ 22,007.45
NORTHUMBERLAND AND DURHAM:—			
Highway No. 2	$ 29,214.69	$ 41,907.92	$ 71,122.61
" No. 28	1,269.24	6,924.13	8,193.37
" No. 30	70,680.07	15,812.87	86,492.94
" No. 33	33,107.82	1,500.30	34,608.12
Total	$ 134,271.82	$ 66,145.22	$ 200,417.04
ONTARIO:—			
Highway No. 2	$ 4,566.10	$ 12,195.53	$ 16,761.63
" No. 7	625.72	4,274.80	4,900.52
" No. 12	20,398.55	28,029.89	48,428.44
Total	$ 25,590.37	$ 44,500.22	$ 70,090.59

County	Construction	Maintenance	Total
OXFORD:—			
Highway No. 2	$ 50,108.65	$ 9,624.45	$ 59,733.10
" No. 3	4,510.57	371.46	4,882.03
" No. 19	3,582.40	5,935.89	9,518.29
Burford Road	2,701.34	2,030.99	4,732.33
Total	$ 60,902.96	$ 17,962.79	$ 78,865.75
PEEL:—			
Highway No. 2	$ 222,158.33	$ 5,219.13	$ 227,377.46
" No. 5	5,413.32	6,497.60	11,910.92
" No. 7	317.35	5,110.74	5,428.09
" No. 10	720.07	10,280.51	11,000.58
Orangeville-Schomberg	1,373.47	62.00	1,435.47
Nashville-Bolton	27,638.11	640.61	28,278.72
Queen Street	144,837.79	5,077.33	149,915.12
Total	$ 402,458.44	$ 32,887.92	$ 435,346.36
PERTH:—			
Highway No. 7	$ 2,377.04	$ 3,754.29	$ 6,131.33
" No. 8	21,341.81	10,746.56	32,088.37
" No. 19	25,053.72	15,622.11	40,675.83
" No. 23	7,129.78	16,539.10	23,668.88
Total	$ 55,902.35	$ 46,662.06	$ 102,564.41
PETERBOROUGH:—			
Highway No. 7	$ 147,732.54	$ 27,906.64	$ 175,639.18
" No. 28	104,789.61	9,070.77	113,860.38
" No. 30	82.41	217.02	299.43
Total	$ 252,604.56	$ 37,194.43	$ 289,798.99
PRESCOTT AND RUSSELL:—			
Highway No. 17	$ 67,775.77	$ 28,937.62	$ 96,713.39
" No. 34	3,582.31	3,202.28	6,784.59
Total	$ 71,358.08	$ 32,139.90	$ 103,497.98
PRINCE EDWARD:—			
Highway No. 14	$ 2,125.04	$ 9,501.28	$ 11,626.32
" No. 33	62,316.90	11,589.10	73,906.00
Total	$ 64,441.94	$ 21,090.38	$ 85,532.32
RENFREW:—			
Highway No. 17	$ 143,294.96	$ 16,993.96	$ 160,288.92
" No. 29	120.47	631.85	752.32
Total	$ 143,415.43	$ 17,625.81	$ 161,041.24
SIMCOE:—			
Highway No. 9	$ 14,693.23	$ 7,271.38	$ 21,964.61
" No. 11	5,618.67	18,504.61	24,123.28
" No. 12	208,001.05	17,824.77	225,825.82
" No. 26	8,015.10	15,354.13	23,369.23
" No. 27	45,284.21	17,550.06	62,834.27
Atherly-Washago	665.22	1,803.00	2,468.22
Orangeville-Schomberg	1,078.28	48.23	1,126.51
Elmvale-Wasaga	7,261.31	3,493.16	10,754.47
Total	$ 290,617.07	$ 81,849.34	$ 372,466.41

County	Construction	Maintenance	Total
STORMONT, DUNDAS AND GLENGARRY:—			
Highway No. 2	$ 3,376.12	$ 25,052.41	$ 28,428.53
" No. 31	178,528.60	5,928.17	184,456.77
" No. 34	125,139.16	10,123.88	135,263.04
Total	$ 307,043.88	$ 41,104.46	$ 348,148.34
VICTORIA:—			
Highway No. 7	$ 4,441.21	$ 9,434.62	$ 13,875.83
" No. 35	47,046.99	8,083.99	55,130.98
" No. 36	143,095.18	5,588.57	148,683.75
Total	$ 194,583.38	$ 23,107.18	$ 217,690.56
WATERLOO:—			
Highway No. 7	$ 797.06	$ 2,373.11	$ 3,170.17
" No. 8	44,263.18	8,895.91	53,159.09
" No. 24	417.29	3,356.18	3,773.47
" No. 24A	527.68	1,905.47	2,433.15
Waterloo-Elmira	35,853.63	3,063.47	38,917.10
Preliminary Survey	106.96	....	106.96
Total	$ 81,965.80	$ 19,594.14	$ 101,559.94
WELLAND:—			
Highway No. 3	$ 564.56	$ 8,326.62	$ 8,891.18
" No. 3A	25,569.37	4,659.70	30,229.07
" No. 8	43,281.76	953.19	44,234.95
" No. 20	284.68	4,427.36	4,712.04
Canal Road	173.07	1,072.81	1,245.88
Dominion Road	1,024.43	1,777.53	2,801.96
Total	$ 70,897.87	$ 21,217.21	$ 92,115.08
WELLINGTON:—			
Highway No. 6	$ 3,116.86	$ 24,310.38	$ 27,427.24
" No. 7	1,128.38	7,344.15	8,472.53
" No. 9	8,260.48	8,791.03	17,051.51
" No. 23	128.28	876.10	1,004.38
" No. 24	90.41	1,422.05	1,512.46
Total	$ 12,724.41	$ 42,743.71	$ 55,468.12
WENTWORTH:—			
Highway No. 2	$ 31,470.45	$ 9,085.68	$ 40,556.13
" No. 5	23,553.14	39,333.17	62,886.31
" No. 6	16,677.93	11,032.75	27,710.68
" No. 8	95,057.84	9,072.50	104,130.34
" No. 20	7,878.05	8,415.35	16,293.40
" No. 20A	1,424.36	4,129.50	5,553.86
" No. 25	37,038.04	68.07	37,106.11
Darkie Side Road	34,106.58	847.86	34,954.44
Windermere Cut Off	32.96	259.69	2[illegible].65
Total	$ 247,239.35	$ 82,240.57	$ 329,479.92
YORK:—			
Highway No. 2	$ 217,244.50	$ 9,825.90	$ 227,070.40
" No. 5	1,211.88	2,875.65	4,087.53
" No. 7	353.78	13,603.78	13,957.56
" No. 11	63,445.84	20,662.43	84,108.27
" No. 27	104,848.93	4,184.86	109,033.79
Queen Street	4,783.09	1,889.05	6,672.14
Kleinburg-Nashville	13,087.51	1,358.80	14,446.31
Orangeville-Schomberg	228.90	10.33	239.23
Total	$ 405,204.43	$ 54,410.80	$ 459,615.23
TYENDENAGA INDIAN RESERVE:—			
Highway No. 2	$ 386.29	$ 2,053.63	$ 2,439.92
TOWN OF BURLINGTON:—			
Highway No. 2	....	289.62	289.62
TOWN OF OAKVILLE:—			
Highway No. 2	....	142.54	142.54
GRAND TOTAL	$7,019,427.41	$1,538,218.22	$8,557,645.63

APPENDIX No. 3

GROSS EXPENDITURE BY ROADS

April 1, 1936, to March 31, 1937

Highway No.	Location	Mileage	Construction	Maintenance	Total
2	Windsor — Quebec Boundary	541.1	$ 1,097,611.07	$ 218,252.48	$ 1,315,863.55
2A	Windsor — Tilbury	32.19	9,090.05	5,621.25	14,711.30
3	Windsor — Fort Erie	260.	39,643.89	71,146.45	110,790.34
3A	Chambers Corners to Thorold and Wellandport	22.2	25,569.37	4,659.70	30,229.07
3B	Windsor to Highway No. 3	5.33	394.69	1,850.45	2,245.14
4	Port Stanley — Flesherton	155.5	246,494.27	53,826.66	300,320.93
5	Toronto — Paris	64.1	50,319.93	67,142.18	117,462.11
6	Port Dover — Hamilton — Owen Sound	149.6	60,050.57	65,704.88	125,755.45
7	Sarnia — Ottawa	465.	214,841.95	164,544.24	379,386.19
8	Niagara Falls — Goderich	155.7	297,989.87	47,061.60	345,051.47
8A	St. Davids — Queenston	2.96	380.79	432.80	813.59
9	Schomberg — Kincardine	112.8	31,749.37	32,951.93	64,701.30
10	Port Credit — Owen Sound	105.	224,237.37	35,473.45	259,710.82
11	Toronto — Severn	95.8	69,064.51	39,167.04	108,231.55
12	Whitby — Midland	97.7	228,399.60	45,854.66	274,254.26
14	Picton — Marmora	51.4	53,918.05	25,503.69	79,421.74
15	Ottawa — Kingston	131.	102,012.64	58,234.29	160,246.93
16	Ottawa — Prescott	62.3	121,321.79	27,324.05	148,645.84
17	Point Fortune — Pembroke	172.6	214,878.06	61,333.89	276,211.95
18	Leamington — Windsor	49.	179,615.03	9,426.96	189,041.99
19	Port Burwell — Tralee	92.2	128,974.34	29,772.08	158,746.42
20	Niagara Falls — Burlington	53.3	45,346.70	21,563.85	66,910.55
20A	Duff's Corners Hy. 2 to Highway No. 20 Hamilton S. to Highway No. 20	16.18	1,424.36	4,129.50	5,553.86
21	Morpeth — Owen Sound	211.8	240,861.15	80,743.53	321,604.68
21A	Highway No. 7 — Port Franks	19.1	35,448.99	2,399.29	37,848.28
22	London — Sarnia	66.8	1,174.30	8,714.67	9,888.97
23	London — Arthur	86.3	11,031.94	22,859.09	33,891.03
24	Guelph — Port Dover	64.	6,765.88	16,529.66	23,295.54
24A	Paris — Galt	13.1	1,071.03	3,358.45	4,429.48
25	Burlington — Milton	14.37	208,510.38	3,173.23	211,683.61
26	Barrie — Owen Sound	74.6	30,597.92	32,247.16	62,845.08
27	Schomberg — Penetanguishene	62.1	150,133.14	21,734.92	171,868.06
28	Port Hope — Apsley	67.9	106,058.85	15,994.90	122,053.75
29	Brockville — Arnprior	76.4	69,366.69	22,484.71	91,851.40
30	Brighton — Havelock	32.	70,762.48	16,029.89	86,792.37
31	Morrisburg — Ottawa	48.4	187,908.14	10,566.63	198,474.77
32	Gananoque — Highway No. 15	12.4	2,505.82	5,674.81	8,180.63
33	Stirling — Kingston	86.2	311,328.01	23,504.24	334,832.25
34	Lancaster — Hawkesbury	38.1	128,721.47	13,326.16	142,047.63
35	Lindsay — Rosedale	22.1	47,046.99	8,083.99	55,130.98
36	Lindsay — Bobcaygeon	23.1	143,095.18	5,588.57	148,683.75
37	Belleville — Actinolite	29.3	18,177.39	17,977.89	36,155.28
38	Kingston — Highway No. 7	47.1	200,284.87	20,526.80	220,811.67
39	Windsor — Belle River	27.2	1,334.12	5,928.03	7,262.15
40	Sarnia — Chatham	50.1	244,519.26	31,648.70	276,167.96
41	Napanee — Kaladar	31.8	23,119.59	11,211.03	34,330.62
42	Brockville — Westport	43.	47,961.49	4,952.54	52,914.03
	New Glasgow — Rodney	4.2	130,526.16	762.85	131,289.01
	Eagle — West Lorne	3.4	1,898.51	360.38	2,258.89
	Wallacetown — Dutton	2.6	1,017.29	458.40	1,475.69
	Pelee Island	6.	17,380.22	211.61	17,591.83
	Sarnia N. Lakeshore Road		18.55		18.55
	Sarnia — Port Huron Bridge		5,559.64		5,559.64
	Forward		$5,887,513.72	$1,498,030.21	$7,385,543.93

APPENDIX No. 3

GROSS EXPENDITURE BY ROADS

April 1, 1936, to March 31, 1937

Highway No. Location	Mileage	Construction	Maintenance	Total
Brought Forward		$ 5,887,513.72	$ 1,498,030.21	$ 7,385,543.93
Brantford — Eastwood (Burford Road)	20.76	10,971.06	10,077.97	21,049.03
Delaware — Strathroy	9.5	1,760.94	1,814.53	3,575.47
Waterloo — Elmira	8.6	35,853.63	3,063.47	38,917.10
Orangeville — Schomberg	18.5	3,204.73	144.66	3,349.39
Queen Street	16.86	796,974.82	9,946.21	806,921.03
Kleinburg — Nashville	7.2	40,725.62	1,999.41	42,725.03
Elmvale — Wasaga Beach	9.	7,261.31	3,493.16	10,754.47
Atherly — Washago	11.	665.22	1,803.00	2,468.22
Amherst Island		8,646.76	....	8,646.76
Wolfe Island	28.	15,159.17	2,345.44	17,504.61
Highway No. 20 — Highway No. 25 at Burlington	1.36	169,148.34	2.25	169,150.59
Windermere Cut Off	1.36	32.96	255.69	288.65
Darkie Side Road	15.12	36,510.09	2,391.88	38,901.97
Canal Road, Humberstone — Welland	5.	173.07	1,072.81	1,245.88
Dominion Road, Ridgeway — Fort Erie	6.77	1,024.43	1,777.53	2,801.96
Preliminary Survey, Res. No. 3	....	341.65	....	341.65
Preliminary Survey, Res. No. 8	....	3,459.89	....	3,459.89
Total	....	$ 7,019,427.41	$ 1,538,218.22	$ 8,557,645.63

APPENDIX No. 4

SCHEDULE OF ASSUMPTIONS AND REVERSIONS OF SECTIONS OF THE KING'S HIGHWAY SYSTEM FOR THE FISCAL YEAR ENDING MARCH 31st, 1937

During the year the system was extended by assuming 216.55 miles, less 4.04 miles reverted, making a total assumed of 3,808.92 miles. A list of the roads added to the system, together with the mileage and date of designation, also a list of roads and mileages reverted from the system, is as follows:—

The King's Highways Assumed Between March 31, 1936 and March 31, 1937

County	Date of Designation	Municipality	Mileage	Total Mileage
Bruce	12th August, 1936	Amabel Township	1.20	
		Southampton Town	3.95	5.15
Carleton	29th July, 1936	Gloucester Township	9.80	
		Osgoode Township	12.20	22.00
Dufferin	10th February, 1937	Mono Township	3.55	3.55
Elgin	5th August, 1936	Aldborough Township	4.30	
	16th September, 1936	Aldborough Township	3.40	
		Dunwich Township	2.60	
	13th January, 1937	Yarmouth Township	0.22	
	13th January, 1937	Port Stanley Village	0.57	11.09
Frontenac	19th August, 1936	Wolfe Island Township	2.40	2.40
Grey	8th April, 1936	St. Vincent Township	0.34	0.34
Haldimand	27th March, 1937	N. Cayuga Township	0.75	
		Cayuga Village	0.55	
		Seneca Township	8.30	
		Caledonia Village	1.30	10.90
Halton	5th August, 1936	Nelson Township	3.83	
		Trafalgar Township	5.88	9.71
Lambton	19th August, 1936	Bosanquet Township	11.30	11.30
Lanark	5th August, 1936	Beckwith	9.46	
		Montague Township	6.90	16.36
Middlesex	16th September, 1936	Caradoc Township	10.50	10.50
Norfolk	9th September, 1936	Woodhouse Township	7.75	7.75
Ontario	5th August, 1936	Mara Township	2.63	
		Rama Township	8.19	
	24th March, 1937	Brock Township	2.05	
		Thorah Township	3.95	16.82
Oxford	9th September, 1936	Tillsonburg Town	0.20	
	11th November, 1936	Tillsonburg Town	0.13	0.33
Peel	12th August, 1936	Albion Township	2.89	
		Toronto Gore Township	0.47	
	10th February, 1937	Caledon Township	3.10	
		Albion Township	5.15	11.61
Prescott	13th May, 1936	Vankleek Hill Town	0.88	0.88
Simcoe	5th August, 1936	Flos Township	8.87	
	10th February, 1937	Adjala Township	3.10	
		Tecumseh Township	3.85	15.82
Victoria	9th December, 1936	Ops Township	3.25	3.25
Wellington	31st March, 1937	Guelph Township	3.15	
		Eramosa Township	6.15	
		Erin Township	11.50	20.80
York	12th August, 1936	Etobicoke Township	12.03	
		King Township	9.00	
		Vaughan Township	9.11	
	5th August, 1936	Vaughan Township	3.50	
	10th February, 1937	King Township	2.35	35.99
				216.55

Reversions in the Fiscal Year Ending March 31st, 1937

County	Date of Reversion	Municipality	Mileage	Total Mileage
Elgin	26th January, 1937	Yarmouth	0.76	0.76
Frontenac	16th August, 1936	Wolfe Island Township	2.40	2.40
Peterborough	11th February, 1937	Asphodel Township	0.50	0.50
Prince Edward	18th October, 1936	Sophiasburg Township	0.10	0.10
Renfrew	16th August, 1936	Pembroke Township	0.28	0.28
				4.04

APPENDIX No. 5

GROWTH OF COUNTY ROAD EXPENDITURES AND PROVINCIAL GRANTS

Year work was done	Number of Counties	Expenditure	Government Grants
1903	4	$ 166,149.06	$ 55,383.02
1904	7	291,084.42	97,028.48
1905	7	179,593.62	59,864.53
1906	10	247,102.37	82,367.45
1907	14	383,518.86	127,839.62
1908	15	429,393.57	143,131.16
1909	16	440,374.08	146,791.36
1910	17	553,312.61	184,437.54
1911	19	712,072.52	237,357.50
1912	20	898,631.18	299,543.69
1913	20	847,684.15	282,561.35
1914	20	785,521.93	261,840.61
1915	20	811,540.05	270,513.34
1916	23	955,447.19	327,663.76
1917	32	1,388,341.87	483,621.32
1918	36	2,226,899.70	815,440.01
1919	37	5,714,937.19	2,623,719.24
1920	..	7,956,863.72	3,626,418.08
1921	..	11,078,288.39	5,119,882.26
1922	..	9,162,491.79	4,258,339.83
1923	..	7,403,509.96	3,418,523.07
1924	..	6,861,451.62	3,214,321.50
1925	..	6,608,431.04	3,222,678.10
1926	..	5,838,445.12	2,913,660.96
1927	..	7,424,464.85	3,706,719.88
1928	..	8,784,420.42	4,360,222.86
1929	..	9,212,758.04	4,591,110.16
1930	..	8,929,424.27	4,463,527.11
1931	..	7,265,350.65	3,625,860.66
1932	..	4,214,410.70	2,106,457.18
1933	..	3,058,622.91	1,529,228.37
1934	..	3,391,768.96	1,695,291.35
1935	..	3,107,215.32	1,553,273.39
1936	..	3,438,188.53	1,718,944.63
Totals to date		$130,767,711.66	$ 61,623,563.37

APPENDIX No. 6

COUNTY ROAD MILEAGE AND EXPENDITURE

From Inception of County Road Systems to December 31st, 1936, Provincial Subsidies on 1936 Expenditure Being Paid in 1937

County	Year of Establishment of System	Road Mileages			Total Approved Expenditure to end of 1936	Total Government Grant
		County Roads	County Suburban Roads	Total		
		Miles	Miles	Miles		
Brant	1917	67.6	24.7	92.3	$ 2,410,442.80	$1,196,987.25
Bruce	1917	277.9	....	277.9	3,292,628.44	1,636,293.48
Carleton	1909	151.1	89.6	240.7	6,799,873.14	3,192,858.87
Dufferin	1918	145.3	....	145.3	1,382,578.94	654,322.39
Elgin	1917	218.6	18.3	236.9	2,488,644.57	1,168,607.91
Essex	1916	212.2	37.5	249.7	6,118,806.73	3,003,791.63
Frontenac	1906	131.4	28.5	159.9	1,583,595.82	725,743.90
Grey	1918	170.8	34.2	265.0	3,367,289.05	1,660,767.67
Haldimand	1911	157.5	....	157.5	2,575,284.66	1,186,301.93
Halton	1907	128.3	....	128.3	2,275,389.60	1,041,749.40
Hastings	1904	311.8	....	311.8	3,402,052.08	1,573,885.48
Huron	1917	388.8	....	388.8	2,799,229.90	1,336,349.70
Kent	1917	262.7	9.5	272.2	4,511,675.16	2,252,169.32
Lambton	1918	228.9	12.0	240.9	2,648,013.00	1,275,008.91
Lanark	1903	223.7	7.2	230.9	2,788,083.96	1,316,128.23
Leeds and Grenville	1910	233.4	10.3	243.7	3,682,713.67	1,694,649.51
Lennox and Addington	1906	130.0	....	130.0	2,650,895.28	1,280,123.34
Lincoln	1904	123.8	12.3	136.1	4,162,415.88	1,818,021.10
Middlesex	1906	401.1	35.2	436.3	4,284,633.69	1,958,006.67
Norfolk	1917	203.8	....	203.8	3,288,678.45	1,558,666.03
Northumberland and Durham	1918	244.5	....	244.5	3,132,134.92	1,537,781.74
Ontario	1918	188.7	13.5	202.2	2,081,310.94	1,007,021.43
Oxford	1904-7	193.7	3.9	197.6	2,932,988.76	1,293,796.11
Peel	1906	146.3	....	146.3	2,560,472.36	1,142,118.26
Perth	1907	165.9	7.5	173.4	1,714,666.98	772,373.61
Peterborough	1919	124.3	40.0	164.3	1,104,891.14	527,805.21
Prescott and Russell	1917	247.8	....	247.8	4,273,361.74	1,909,234.79
Prince Edward	1907	147.2	....	147.2	2,038,769.93	930,407.15
Renfrew	1918	219.1	....	219.1	3,163,093.13	1,537,750.68
Simcoe	1903	315.7	....	315.7	4,074,699.05	1,881,987.18
Stormont, Dundas and Glengarry	1917	461.7	....	461.7	5,146,287.37	2,649,621.56
Victoria	1917	172.8	....	172.8	2,563,239.91	1,270,634.20
Waterloo	1908	170.4	13.7	184.1	3,904,826.10	1,905,814.15
Welland	1912	101.6	16.4	118.0	4,726,259.02	2,183,777.74
Wellington	1903	327.7	13.0	340.7	3,716,366.29	1,731,583.81
Wentworth	1902	127.6	61.5	189.1	4,197,838.07	1,914,283.19
York	1911	32.1	261.7	293.8	12,623,671.13	5,897,139.84
Totals		7,555.8	750.5	8,306.3	$130,767,711.66	$61,623,563.37

APPENDIX No. 7
SUMMARY — 1936
Work Done on County Roads

Name of County	Miles of Road Surfaced					New Bridges	Pipe and Tile Culverts	Steel Arch and Concrete Culverts
	Gravel or Stone	Surface Treated Gravel or Stone	Low-Cost Bituminous Surfaces	Mixed Macadam or Asphaltic Concrete	Cement Concrete			
Brant	3.25					1	10	
Bruce	5.87		5.02			4	12	1
Carleton	10.40	5.50				1	39	1
Dufferin	0.30						15	
Elgin	2.00						7	
Essex	1.00		1.25				2	
Frontenac			3.80	1.50		1	1	
Grey	2.75		2.87				15	
Haldimand	.25					5	21	7
Halton	1.30	1.60				2	23	2
Hastings	1.50		2.10			1	17	
Huron	1.00						4	
Kent	17.75		5.60		0.30		35	1
Lambton	5.25	1.50					16	
Lanark	7.33	2.75	2.50				14	
Leeds and Grenville		1.00	2.75			2	10	2
Lennox and Addington		3.00	2.00				5	
Lincoln		8.00			0.20	3	24	1
Middlesex	15.00					x1	40	
Norfolk		16.65					16	5
Northumberland and Durham							23	2
Ontario	1.00		5.00			1	60	2
Oxford	10.00	76.30	2.00			4	3	
Peel			2.00				3	1
Perth	5.00					1	41	1
Peterboro			1.70			1	43	6
Prescott and Russell	3.00						3	
Prince Edward			3.45				19	
Renfrew						1		
Simcoe	6.00					4	1	
Stormont, Dundas Glengarry			12.00			1	3	2
Victoria	7.09					1	55	
Waterloo	3.00	4.20				4	19	
Welland			3.00				10	
Wellington	8.00					2	2	2
Wentworth	1.50	1.30	6.20			2	9	2
York	3.72		2.73	1.74	3.92	5	179	2
Totals	123.26	121.80	65.97	3.24	4.42	48	799	40

xThis Bridge on Elgin-Middlesex Boundary.

APPENDIX No. 8

Name of County	Superintendence		Road and Culvert Construction	Urban Improvement		Bridge Construction
	Construction	Maintenance		Construction	Maintenance	
Brant	$ 2,510.89	$ 2,934.00	$ 13,350.98	....	$ 1,500.30	$ 1,600.84
Bruce	2,037.04	2,000.00	44,345.16	8,735.11	896.36	9,698.85
Carleton	5,388.54	4,411.80	71,642.48	3,914.65	....	2,717.78
Dufferin	273.00	2,933.40	2,043.55	....	1,157.51	....
Elgin	1,123.00	2,057.37	3,179.25	942.00	4,801.45	14,854.81
Essex	800.00	2,512.84	17,303.43	....	5,793.74	....
Frontenac	1,523.46	2,207.32	16,332.38	....	....	1,626.60
Grey	1,390.00	2,703.31	18,900.85	516.27	1,973.98	....
Haldimand	1,958.76	2,976.00	15,496.76	1,872.50	1,522.50	14,739.97
Halton	1,125.57	2,271.87	11,882.66	....	3,425.47	2,104.17
Hastings	500.00	2,151.87	12,090.43	176.80	....	5,120.00
Huron	934.75	3,388.00	8,288.78	....	2,177.20	....
Kent	2,000.00	2,418.67	75,983.84	....	5,321.94	....
Lambton	706.13	2,790.00	9,949.94	....	1,024.43	....
Lanark	2,364.46	1,790.27	26,541.22	....	866.93	....
Leeds and Grenville	2,000.00	1,955.69	39,798.05	3,150.97	....	2,487.31
Lennox and Addington	1,200.00	838.05	20,638.16	....	....	....
Lincoln	919.43	3,910.00	4,184.12	....	4,600.88	4,223.26
Middlesex	1,732.50	2,528.24	18,468.31	155.63	1,962.24	11,155.14
Norfolk	909.00	3,884.78	16,731.29	3,203.69	1,508.05	1,865.37
Northumberland and Durham	300.00	3,125.07	3,250.20	....	....	....
Ontario	2,625.50	2,567.70	36,838.50	4,660.93	....	....
Oxford	760.65	3,317.60	....	....	3,383.19	4,550.48
Peel	1,262.99	1,904.00	17,790.92	....	....	....
Perth	1,957.61	1,212.10	26,913.32	....	524.53	999.77
Peterboro	1,000.00	2,156.79	14,767.71	....	1,205.27	3,119.75
Prescott and Russell	300.00	2,221.93	5,686.70	....	960.28	....
Prince Edward	500.00	1,155.40	11,501.15	....	2,306.62	....
Renfrew	1,466.67	3,772.00	....	....	675.71	7,566.82
Simcoe	431.00	3,652.75	6,120.52	....	13,608.28	....
Stormont, Dundas and Glengarry	1,783.29	2,713.72	37,699.18	....	7,692.93	7,916.70
Victoria	2,360.00	1,911.56	23,015.30	13,781.40	688.58	614.89
Waterloo	2,880.28	3,158.84	25,613.12	....	17,457.87	28,309.63
Welland	881.14	3,358.75	6,083.87	5,913.02	1,427.35	623.69
Wellington	540.71	4,155.02	8,810.31	....	9,172.13	2,118.31
Wentworth	4,066.89	1,321.66	53,975.18	....	2,911.17	....
York	4,900.00	5,003.28	233,678.22	15,127.23	....	6,660.70
Totals	$ 59,113.56	$ 102,371.65	$ 958,896.44	$ 62,150.20	$ 103,519.89	$ 134,704.84

SUMMARY OF COUNTY ROAD EXPENDITURES - 1936

County Bridges		Maintenance and Repair	Machinery		Total Approved Expenditure			Government Subsidy 50%
Construction	Maintenance		Construction	Maintenance	Construction	Maintenance	Total	
....	....	$ 17,938.60	$ 1,078.49	$ 6,560.13	$ 18,541.20	$ 28,933.03	$ 47,474.23	$ 23,737.11
....	$ 579.75	59,032.40	8,912.48	6,648.33	73,728.64	69,156.84	142,885.48	71,442.74
....	....	53,884.96	4,029.72	4,127.40	87,693.17	62,424.16	150,117.33	75,058.66
....	....	27,603.35	475.80	432.42	2,792.35	32,126.68	34,919.03	17,459.51
....	41.35	32,197.76	5,055.00	6,586.94	25,154.06	45,684.87	70,838.93	35,419.46
....	47.03	38,492.36	2,976.97	1,168.72	21,080.40	48,014.69	69,095.09	34,547.54
....	....	32,316.06	4,997.38	2,982.18	24,479.82	37,505.50	61,985.32	30,992.66
....	386.38	52,897.87	5,308.45	1,414.12	26,115.57	59,375.66	85,491.23	42,745.61
....	394.19	47,996.17	1,702.48	1,466.04	35,770.47	54,354.90	90,125.37	45,062.69
....	....	32,720.90	4,690.00	1,239.33	19,802.40	39,657.57	59,459.97	29,729.99
....	592.19	58,495.68	664.00	2,164.48	18,551.23	63,404.22	81,955.45	40,977.73
....	543.74	59,814.74	11,138.70	7,135.27	20,362.23	73,058.95	93,421.18	46,710.59
....	....	83,744.13	1,162.00	2,956.21	79,145.84	94,443.95	173,589.79	86,794.89
....	19.45	33,081.85	5,201.10	2,678.16	15,857.17	39,593.89	55,451.06	27,725.53
....	....	15,797.66	345.00	1,534.51	29,250.68	19,989.37	49,240.05	24,620.02
....	....	20,384.18	1,011.77	164.42	48,448.10	22,504.29	70,952.39	35,476.20
....	....	11,777.28	1,479.97	372.34	23,318.13	12,987.67	36,305.80	18,152.90
$ 3,576.29	172.51	50,837.17	1,935.31	3,379.67	14,838.41	62,900.23	77,738.64	38,869.32
....	600.47	41,060.05	7,951.00	10,964.41	39,462.58	57,115.41	96,577.99	48,288.99
1,937.29	538.48	122,295.02	3,576.84	6,233.30	28,223.48	134,459.63	162,683.11	81,341.55
....	....	27,047.75	917.41	2,640.23	4,467.61	32,813.05	37,280.66	18,640.33
....	421.58	43,866.38	7,847.70	3,794.95	51,972.63	50,650.61	102,623.24	51,311.62
....	2,754.64	54,726.63	10,606.76	4,748.27	15,917.89	68,930.33	84,848.22	42,424.11
....	917.36	27,736.21	4,871.88	1,623.23	23,925.79	32,180.80	56,106.59	28,053.29
....	....	14,871.44	122.66	1,452.41	29,993.36	18,060.48	48,053.84	24,026.92
....	8,312.45	31,986.40	577.90	948.21	19,465.36	44,608.82	64,074.18	32,037.10
....	....	39,802.10	....	11.50	5,986.70	42,995.81	48,982.51	24,491.25
....	178.70	30,083.70	5,347.00	841.09	17,348.15	34,568.51	51,916.66	25,958.33
....	3,583.72	22,881.81	4,101.20	809.90	13,134.69	31,723.14	44,857.83	22,428.91
1,203.87	88.96	57,279.97	580.34	2,565.33	8,335.73	77,195.29	85,531.02	42,636.22
....	....	66,731.15	4,343.80	....	51,743.27	77,137.80	128,881.07	64,440.53
....	1,044.23	29,030.45	4,801.04	2,777.52	44,602.63	35,452.34	80,054.97	40,027.48
....	446.91	48,266.76	12,863.00	6,030.57	69,666.33	75,360.95	145,027.28	72,513.64
....	....	47,376.16	1,277.48	1,155.11	14,779.50	56,317.37	71,096.87	35,548.14
....	1,800.56	76,267.32	778.03	2,071.68	12,247.36	93,466.71	105,714.07	52,857.03
2,194.10	....	58,346.15	5,905.40	4,172.31	66,141.57	69,751.29	135,892.86	67,946.43
....	202.93	158,745.35	7,247.06	5,374.45	267,613.21	169,326.01	436,939.22	218,449.34
$ 8,911.55	$ 23,667.28	$1,727,413.86	$ 145,881.12	$ 111,228.14	$1,369,957.71	$2,068,230.82	$3,438,188.53	$1,718,944.63

APPENDIX

SCHEDULE OF EXPENDITURE ON MAINTENANCE AND

Name of County	Brushing and Weed Cutting	Ditching	Grading	Dragging
Brant	$ 1,218.89	$ 648.91	$ 117.78	$ 2,204.88
Bruce	3,194.40	449.29	1,942.78	6,068.26
Carleton	4,660.36	91.81	2,024.80	5,747.76
Dufferin	1,231.25	62.01	333.82	3,418.02
Elgin	1,715.07	609.82	4,028.66	5,190.23
Essex	3,437.33	468.04	724.33	4,606.30
Frontenac	1,576.97	1,489.70	7,742.49	1,508.86
Grey	3,389.28	1,153.12	1,445.45	3,654.06
Haldimand	1,499.93	518.45	525.03	2,646.39
Halton	932.60	1,291.23	990.34	4,782.00
Hastings	1,486.88	....	7,591.05	5,628.11
Huron	4,057.73	3,236.80	1,857.46	9,472.35
Kent	3,395.33	1,540.69	2,568.19	15,588.94
Lambton	1,657.12	976.38	29.40	8,299.46
Lanark	622.31	421.28	2,231.94	419.23
Leeds and Grenville	1,023.69	267.55	1,006.41	2,869.27
Lennox and Addington	131.80	177.35	437.25	50.00
Lincoln	2,295.63	808.34	941.48	47.32
Middlesex	2,971.95	371.12	2,089.58	6,879.93
Norfolk	1,210.75	722.14	1,212.73	3,742.00
Northumberland and Durham	1,190.65	424.24	2,120.36	1,481.46
Ontario	2,257.20	654.98	916.73	4,218.35
Oxford	2,192.45	425.53	837.15	7,995.86
Peel	939.28	551.60	27.60	2,914.76
Perth	1,735.39	136.32	4,188.64	1,095.11
Peterboro	806.90	156.96	277.56	7,650.88
Prescott and Russell	2,736.03	2,023.77	5,119.75	46.95
Prince Edward	931.60	443.06	2,176.61	....
Renfrew	1,136.38	....	3,647.25	699.40
Simcoe	1,826.11	557.50	340.17	11,169.58
Stormont, Dundas and Glengarry	4,517.54	328.27	5,022.82	....
Victoria	822.64	87.23	250.40	3,865.34
Waterloo	1,481.15	483.57	349.95	4,259.10
Welland	4,098.49	1,069.29	3,534.14	....
Wellington	3,563.68	1,889.68	294.55	7,104.08
Wentworth	4,336.60	2,514.28	2,071.34	2,739.34
York	9,673.69	2,247.74	7,050.75	3,533.62
Totals	$ 85,955.05	$ 29,298.05	$ 78,067.04	$ 151,597.20

No. 9

REPAIR OF COUNTY ROADS

Culverts (Repairs)	Bridges (Repairs)	Re-Surfacing	Stabilizing Oiling, etc.	Snow Roads	Wire Fence Bonus and Guide Rails	Total Subsidisable Expenditure
$ 140.25	$ 159,48	$ 3,592.36	$ 2,557.50	$ 6,553.12	$ 745.43	$ 17,938.60
212.11	1,194.09	20,515.86	11,821.75	13,633.86	....	59,032.40
891.20	377.18	16,356.60	5,997.56	16,412.77	1,324.92	53,884.96
58.13	146.30	12,933.82	3,327.56	5,837.28	255.16	27,603.35
172.74	514.35	12,489.33	1,846.09	3,886.92	1,744.55	32,197.76
194.39	61.75	13,054.74	14,376.53	1,403.70	165.25	38,492.36
1,588.40	741.06	4,265.97	3,153.57	10,178.23	70.75	32,316.00
366.90	125.43	13,846.38	16,844.02	12,073.23	....	52,897.87
1,160.14	899.33	34,488.16	573.07	5,322.53	363.14	47,996.17
1,118.14	238.74	20,403.50	....	2,475.72	488.63	32,720.90
2,272.02	5,935.27	22,154.85	4,186 23	9,241.27	....	58,495.68
717.97	3,906.16	11,967.99	11,757.57	12,369.84	470.87	59,814.74
758.96	19,736.71	35,318.04	....	3,698.12	1,139.15	83,744.13
888.19	254.24	15,408.57	....	5,426.59	141.90	33,081.85
889.25	636.82	7,848.47	....	2,490.91	237.45	15,797.66
840.87	587.56	11,239.88	2,102.21	395.19	51.55	20,384.18
18.20	289.00	4,013.74	1,093.15	5,566.79	....	11,777.28
465.49	1,303.81	13,813.27	24,798.50	5,882.06	481.27	50,837.17
410.12	384.56	17,234.36	1,305.91	9,412.52	....	41,060.05
775.90	120.10	107,804.29	1,115.44	4,526.32	1,065.35	122,295.02
691.77	951.63	13,126.09	603.44	5,717.30	740.81	27,047.75
579.47	595.16	14,645.19	8,816.25	10,810.65	372.40	43,866.38
350.80	39.81	27,735.38	2,038.11	12,534.61	576.93	54,726.63
220.35	779.73	12,118.32	3,774.01	5,139.52	1,271.04	27,736.21
596.47	500.42	858.33	2.80	5,532.89	225.07	14,871.44
481.81	2,101.71	12,668.11	3,775.00	4,067.47	....	31,986.40
350.10	1,354.72	23,328.17	1,829.78	3,012.83	....	39,802.10
1,338.59	4.85	13,567.72	2,930.60	8,151.42	539.25	30,083.70
1,594.62	123.48	9,472.76	3,092.86	3,115.06	....	22,881.81
1,505.36	249.98	22,542.09	5,515.14	12,851.32	722.72	57,279.97
853.91	848.58	39,380.19	12,247.76	3,532.08	....	66,731.15
168.40	305.73	15,462.50	237.38	7,049.93	780.90	29,030.45
654.95	345.50	19,159.58	14,416.70	6,758.80	357.46	48,266.76
1,134.31	1,955.07	22,638.28	6,145.35	6,177.78	623.15	47,376.16
1,174.43	2,285.69	25,049.43	17,911.28	10,421.57	6,572.93	76,267.32
289.20	....	19,632.05	12,883.45	13,879.89	....	58,346.15
134.60	1,768.64	76,411.30	16,502.76	41,422.25	....	158,745.35
$ 26,058.51	$ 51,822.64	$ 766,545.67	$ 219,579.33	$ 296,962.34	$ 21,528.03	$ 1,727,413.86

APPENDIX

SUMMARY OF EXPENDITURE ON

The following schedule shows the approved expenditure on township

Year	No. of Twps.	Roads and Culverts	Bridges	General Maintenance	Machinery	Superintendence
1920 to 1934	172 to 338	$ 17,415,367.95	$ 4,637,929.24	$ 30,941,679.92	$ 2,323,851.88	$ 2,671,828.52
1935	339	628,855.34	98,623.04	1,844,654.47	127,708.09	214,688.40
1936	343	462,196.19	103,438.46	1,989,872.85	166,772.95	225,333.70
Totals..	....	$ 18,506,419.48	$ 4,839,990.74	$ 34,776,207.24	$ 2,618,332.92	$ 3,111,850.62

No. 10

TOWNSHIP ROADS

roads under the provisions of The Highway Improvement Act.

Total Approved Expenditure			Government Subsidy		
Construction	Maintenance	Total	Construction	Maintenance	Total
23,718,523.99	$ 34,272,133.52	$ 57,990,657.51	$ 7,615,854.36	$ 10,959,400.20	$ 18,575,254.56
824,447.33	2,090,082.01	2,914,529.34	344,705.13	874,448.05	1,219,153.18
699,695.53	2,247,918.62	2,947,614.15	293,505.92	939,468.25	1,232,974.17
25,242,666.85	$ 38,610,134.15	$ 63,852,801.00	$ 8,254,065.41	$ 12,773,316.50	$ 21,027,381.91

APPENDIX
SUMMARY OF COUNTY AND

NAME OF COUNTY	TOWNSHIP ASSESSMENTS (Exclusive of Urban Assessments)		COUNTY LEVY BASED ON EQUALIZED				
	Equalized	Local	King's Highway		County Roads		Education
			Debent.	Current	Debent.	Current	
Brant..........	$ 16,752,000	$ 12,884,604	$ 18,091	$ 5,364	$ 24,472	$ 23,225	$ 30,285
Bruce..........	23,222,975	22,304,363	....	786	1,672	60,160	48,349
Carleton........	23,540,323	16,648,846	70,121	....	120,397	16,399	68,507
Dufferin........	11,386,943	8,715,843	24,595	....	....	15,942	16,621
Elgin...........	26,193,987	21,441,691	....	18,036	....	30,187	48,299
Essex...........	37,903,318	30,471,720	....	33,167	33,466	37,902	50,334
Frontenac.......	5,790,006	4,554,659	32,997	....	....	21,316	27,208
Grey...........	23,047,500	21,497,445	21,435	46,084	18,889	34,570	56,377
Haldimand......	10,335,410	10,599,005	33,409	....	17,268	36,174	34,119
Halton..........	21,265,908	12,581,731	17,990	340	48,405	17,012	37,066
Hastings........	8,037,300	7,379,650	....	26,121	8,037	18,084	22,102
Huron..........	38,103,105	32,971,357	11,146	25,052	....	45,724	52,501
Kent...........	33,744,500	28,707,452	....	3,002	....	63,440	64,790
Lambton........	27,633,600	25,098,908	....	38,520	....	25,312	71,018
Lanark.........	9,344,500	7,275,787	17,613	3,598	51,157	5,448	23,046
Leeds and Grenville......	14,691,580	13,572,365	23,684	41,567	43,330	29,383	52,070
Lennox and Addington....	7,532,397	6,137,741	7,533	....	45,195	14,204	33,895
Lincoln.........	13,518,986	12,041,693	20,208	5,803	88,319	26,859	47,954
Middlesex.......	47,536,687	39,797,455	99,490	2,970	23,215	38,539	103,202
Norfolk.........	20,414,740	13,412,703	13,160	2,355	42,884	56,941	15,484
Northumberland and Durham..	24,642,400	20,201,021	22,917	18,483	36,963	13,801	78,854
Ontario.........	19,814,185	19,048,844	44,556	2,331	15,632	38,473	53,165
Oxford..........	25,521,300	24,523,481	21,273	....	17,858	37,436	43,676
Peel............	14,958,873	13,100,495	41,755	14,663	29,471	26,179	52,059
Perth...........	32,146,243	25,413,948	....	3,878	....	24,595	27,329
Peterborough....	8,853,021	7,747,759	7,836	10,914	....	26,470	21,644
Prescott and Russell........	17,963,401	13,426,618	....	....	133,110	35,925	31,436
Prince Edward...	10,708,750	7,799,595	4,391	2,034	9,102	18,741	15,741
Renfrew (10 townships).	13,686,122	8,351,885	15,179	1,738	56,250	1,915	30,323
Simcoe (9 townships)..	23,105,000	18,349,574	....	23,105	....	16,174	36,967
Stormont, Dundas and Glengarry.....	27,674,204	26,668,460	22,971	29,610	33,761	46,768	69,954
Victoria.........	16,179,791	11,273,924	12,058	1,613	12,789	28,734	19,349
Waterloo........	20,855,000	16,687,564	....	1,089	....	41,710	10,426
Welland.........	27,450,412	25,891,165	....	20,289	20,854	24,018	78,981
Wellington......	28,782,570	23,320,040	....	18,543	....	43,168	42,403
Wentworth......	25,490,070	18,995,161	96,834	13,068	1,155	49,612	42,972
York...........	89,410,602	92,617,048	61,932	17,963	36,378	94,374	361,326
Totals......	$ 847,337,709	$ 721,510,600	$ 763,174	$ 432,086	$ 969,929	$1,184,914	$1,919,832

No. 11
TOWNSHIP LEVIES — 1936

ASSESSMENT		TOWNSHIP LEVY BASED ON TOWNSHIP ASSESSMENT					Total Road Levy	Per cent. of Road Levy to Total Levy
Miscellaneous	Total	County Levy	Township Roads	Education	Miscellaneous	Total Levy		
$ 24,192	$ 125,629	$ 125,669	$ 34,507	$ 88,497	$ 97,829	$ 346,502	$ 105,659	30.5
98,040	209,007	208,832	67,190	126,119	64,195	466,336	129,808	27.8
142,870	418,294	419,327	48,996	180,237	209,436	857,996	255,913	29.8
28,244	85,402	85,979	36,511	71,708	24,892	219,090	77,048	28.4
54,093	150,615	151,194	49,846	115,084	79,334	395,458	98,069	24.8
110,452	265,321	265,826	64,196	200,819	396,744	927,585	168,731	18.2
38,226	119,747	124,165	17,633	53,584	29,006	224,388	71,946	32.0
76,275	253,630	244,716	77,096	164,477	53,892	540,181	198,074	36.6
65,086	186,056	186,122	29,924	62,359	35,717	314,122	116,775	37.2
37,960	158,773	154,783	25,387	58,550	94,159	332,879	109,134	32.8
58,271	132,615	132,859	11,061	56,217	21,651	221,788	63,303	28.5
75,144	209,567	210,989	58,387	163,187	133,035	565,598	140,309	24.8
91,478	222,710	228,058	98,052	166,808	301,757	794,675	164,494	20.7
63,918	198,768	190,822	81,542	131,984	152,584	556,932	145,374	26.1
33,565	134,327	134,806	19,095	62,745	35,474	252,120	96,811	38.4
73,461	263,495	265,735	37,421	129,758	77,379	510,293	175,385	34.3
56,493	157,320	167,429	14,205	46,442	27,238	255,314	81,137	31.7
84,346	273,489	279,124	45,968	124,824	92,016	541,932	187,157	34.7
136,646	404,062	404,403	68,167	188,776	102,760	764,106	232,381	30.4
96,970	227,794	228,161	37,278	93,090	43,292	401,821	152,618	37.9
109,166	280,184	275,567	69,241	165,109	59,557	569,474	161,405	28.3
61,627	215,784	217,403	67,940	149,398	76,544	511,285	168,932	33.0
59,720	179,963	182,062	56,574	132,740	60,511	431,887	133,141	30.8
53,556	217,683	218,790	34,527	150,514	118,023	521,854	146,595	28.1
56,711	112,513	113,361	50,054	100,744	63,318	327,477	78,527	24.0
55,042	121,906	123,450	18,539	78,706	40,138	260,833	63,759	24.5
109,218	309,689	310,753	53,794	137,560	110,143	612,250	222,829	36.4
39,195	89,204	89,515	11,586	60,789	19,024	180,914	45,854	25.3
62,250	167,655	167,655	4,280	14,524	9,511	195,970	79,362	40.5
92,420	168,666	169,012	51,076	131,650	88,043	439,781	90,355	20.5
124,811	327,875	329,758	65,316	250,310	189,613	834,997	198,426	23.8
49,495	124,038	124,274	22,382	65,141	23,639	235,436	77,576	33.0
87,573	140,798	146,662	44,959	105,419	55,483	352,523	87,758	24.9
99,479	243,621	228,214	90,888	275,321	363,016	957,439	156,049	16.3
54,107	158,221	160,404	60,658	134,708	56,020	411,790	122,369	29.7
63,561	267,202	268,657	47,153	140,618	81,614	538,042	207,822	38.6
386,933	958,906	951,309	366,076	1,695,225	3,219,044	6,231,654	576,723	9.3
3,010,594	8,280,529	8,285,845	2,037,505	6,073,741	6,705,631	23,102,722	5,387,608	23.3

APPENDIX
ROAD SURFACES

County	COUNTY ROADS					
	Earth	Gravel or Stone	Surface Treated Macadam	Bituminous Macadam	Asphaltic Concrete	Cement Concrete
Brant	5.8	69.6	0.3	15.7		0.9
Bruce		202.7	48.0	27.2		
Carleton	10.4	125.2	25.4	50.4	29.3	
Dufferin		145.3				
Elgin		236.7	0.1	0.1		
Essex		184.9		5.6	15.2	44.0
Frontenac		163.2	43.7	4.5	8.5	
Grey		175.7		17.0		12.3
Haldimand	3.5	87.9	60.8	5.3		
Halton		77.0	28.4		2.9	20.0
Hastings		281.9	18.0		9.6	2.3
Huron		367.1	15.2	1.1		5.4
Kent	6.2	228.5		7.8	6.3	23.4
Lambton		226.5		6.7	4.2	3.5
Lanark	9.6	175.1	18.7	27.5		
Leeds and Grenville	41.0	140.9	4.0	24.8	30.2	2.8
Lennox and Addington		68.0	13.0	2.0	47.0	
Lincoln		0.8	94.4	26.0	2.6	12.3
Middlesex		390.3				46.0
Norfolk	12.2	108.1	46.5	36.7	0.3	
Northumberland and Durham		183.2		5.3	47.1	8.9
Ontario		184.9		10.3	0.3	6.7
Oxford		189.9		6.2	1.5	
Peel		130.7	1.0	11.3	0.5	2.8
Perth		166.2	3.7	2.5	1.0	
Peterboro		157.7	2.2	4.4		
Prescott and Russell	27.4	115.0	86.8		18.6	
Prince Edward		76.2	44.9	1.8	16.0	8.3
Renfrew	35.9	140.6	35.5	7.1		
Simcoe	4.0	306.0	1.5	0.9	2.0	1.3
Stormont, Dundas and Glengarry	4.5	221.3	162.1	67.3	5.2	1.3
Victoria	5.6	154.6	6.2	1.5	4.9	
Waterloo		110.4	8.4	27.4	3.9	34.0
Welland	1.5	2.0	72.3	12.0	20.0	10.2
Wellington	1.9	317.4	1.8	2.7	3.5	13.4
Wentworth	4.0	98.0	52.4	27.7	4.0	3.0
York	2.4	74.3	72.1	62.4	72.3	10.3
Totals	175.9	6,018.1	967.4	514.9	356.9	273.1

No. 13
— END OF 1936

Total	TOWNSHIP ROADS						
	Earth	Gravel or Stone	Surface Treated Macadam	Bitu-minous Macadam	Asphaltic Concrete	Cement Concrete	Total
92.3	227.6	323.0	....	0.3	....	0.6	551.5
277.9	284.5	1,357.7	....	....	....	....	1,642.2
240.7	361.6	707.5	1.3	....	....	....	1,070.4
145.3	314.1	478.0	....			....	792.1
236.9	158.5	759.9	....	....	....	....	918.4
249.7	138.1	720.9	....	....	....	9.9	868.9
159.9	529.7	501.3	....	1.0	....	....	1,032.0
205.0	569.4	1,632.0	....	....	....	....	2,201.4
157.5	218.2	354.1	8.9	....	....	5.0	586.2
128.3	94.6	327.9	....	....	....	1.8	424.3
311.8	769.4	728.6	....	....	....	....	1,498.0
388.8	243.0	1,390.5	....	0.7	....	....	1,634.2
272.2	314.5	1,022.6	1.3	0.4	....	....	1,338.8
240.9	480.2	941.3	....	1.0	....	....	1,422.5
230.9	571.3	412.2	....	....	....	....	983.5
243.7	523.9	860.8	....	4.0	....	....	1,388.7
130.0	285.2	460.5	....	0.5	....	....	746.2
136.1	405.3	256.5	3.0	....	....	5.0	669.8
436.3	226.5	1,375.2	....	....	....	0.2	1,601.9
203.8	541.3	373.9	2.9	....	....	....	918.1
244.5	865.5	1,463.6	....	....	....	....	2,329.1
202.2	252.4	966.1	....	....	....	....	1,218.5
197.6	83.0	1,005.1	4.5	....	....	....	1,092.6
146.3	304.1	351.2	....	....	....	....	655.5
173.4	89.8	979.8	....	....	....	....	1,069.6
164.3	438.5	542.6	....	....	....	....	981.1
247.8	770.2	221.9	....	....	....	....	992.1
147.2	68.3	351.8	....	....	0.2	....	420.1
219.1	538.0	270.2	....	....	....	....	808.2
315.7	950.5	1,062.1	....	....	....	....	2,012.6
461.7	581.0	788.4	....	3.6	....	4.9	1,377.9
172.8	502.8	573.7	0.4	....	....	....	1,076.9
184.1	62.5	531.1	....	....	....	0.2	593.8
118.0	504.3	338.9	89.0	1.5	6.2	0.8	940.7
340.7	623.3	712.6	....	....	....	0.4	1,336.3
189.1	173.5	379.8	....	....	....	....	553.3
293.8	539.5	1,030.1	16.4	10.3	86.0	15.3	1,697.6
8,306.3	14,604.1	26,553.4	127.7	23.3	92.4	44.1	41,445.0

APPENDIX No. 14

SUMMARY OF 1936 COUNTY LEVIES ON BASIS OF EQUALIZED ASSESSMENT

Name of County	Equalized Assessment		Roads and Bridges					Other Purposes			Total Levy
			The King's Highways		County Roads and Bridges		Total	Educational	Miscellaneous	Totals	
	Total	Per Acre	Debentures	Current	Debentures	Current					
			Mills	Mills	Mills	Mills	Mills	Mills	Mills	Mills	Mills
Brant	$ 19,826,800	$ 92	1.08	0.32	1.46	1.39	4.25	1.81	1.44	3.25	7.50
Bruce	28,639,030	30	....	0.03	0.07	2.59	2.69	2.08	4.23	6.31	9.00
Carleton	27,631,991	49	2.98	....	5.11	0.70	8.79	2.91	6.07	8.98	17.77
Dufferin	13,364,550	37	2.16	....	....	1.40	3.56	1.46	2.48	3.94	7.50
Elgin	30,370,345	69	....	0.69	....	1.15	1.84	1.84	2.07	3.91	5.75
Essex	51,693,612	120	....	0.87	0.88	1.00	2.75	1.33	2.92	4.25	7.00
Frontenac	7,246,850	11	5.70	....	....	4.50	10.20	4.70	6.60	11.30	21.50
Grey	26,110,000	24	0.93	2.00	0.82	1.50	5.25	2.44	3.31	5.75	11.00
Haldimand	11,920,410	42	3.23	....	1.67	3.50	8.40	3.30	6.30	9.60	18.00
Halton	31,913,780	110	0.84	0.02	1.49	0.80	3.15	1.74	1.79	3.53	6.68
Hastings	18,302,800	17	....	3.25	1.00	2.25	6.50	2.75	7.25	10.00	16.50
Huron	44,271,175	55	0.29	0.66	....	1.20	2.15	1.38	1.97	3.35	5.50
Kent	39,828,700	107	....	0.09	....	1.88	1.97	1.92	2.71	4.63	6.60
Lambton	31,126,000	46	....	1.39	....	0.92	2.31	2.57	2.31	4.88	7.19
Lanark	15,000,000	22	1.88	0.39	5.46	0.58	8.31	2.47	3.59	6.06	14.37
Leeds and Grenville	17,672,000	24	1.61	2.82	2.96	2.00	9.39	3.54	5.00	8.54	17.93
Lennox and Addington	9,637,295	22	1.00	....	6.00	2.00	9.00	4.50	7.50	12.00	21.00
Lincoln	19,000,000	99	1.49	0.43	6.53	1.99	10.44	3.55	6.24	9.79	20.23
Middlesex	51,045,045	67	2.09	0.06	0.49	0.81	3.45	2.17	2.88	5.05	8.50
Norfolk	28,498,200	72	0.64	0.12	2.10	2.79	5.65	0.55	4.75	5.30	10.95
Northumberland and Durham	35,963,000	41	0.93	0.75	1.50	0.56	3.74	3.20	4.43	7.63	11.37
Ontario	24,421,141	48	2.25	0.12	0.79	1.94	5.10	2.68	3.11	5.79	10.89
Oxford	28,632,200	60	0.83	....	0.70	1.47	3.00	1.71	2.34	4.05	7.05
Peel	19,995,818	68	2.66	0.98	1.97	1.75	7.36	3.48	3.58	7.06	14.42
Perth	35,289,166	67	....	0.12	....	0.76	0.88	0.85	1.77	2.62	3.50
Peterborough	10,094,318	18	0.84	1.17	....	2.99	5.00	2.32	5.90	8.22	13.22
Prescott and Russell	20,555,591	37	....	....	7.41	2.00	9.41	1.75	6.08	7.83	17.24
Prince Edward	15,000,000	63	0.41	0.19	0.85	1.75	3.20	1.47	3.66	5.13	8.33
Renfrew	28,460,230	26	1.11	0.13	4.11	0.14	5.49	2.21	4.55	6.76	12.25
Simcoe	59,670,000	62	....	1.00	....	0.70	1.70	1.60	4.00	5.60	7.30
Stormont, Dundas and Glengarry	39,332,029	51	0.83	1.07	1.22	1.69	4.81	2.60	4.51	7.11	11.92
Victoria	22,478,450	38	0.74	0.10	0.88	1.97	3.69	1.20	3.06	4.26	7.95
Waterloo	38,027,000	97	....	0.05	....	2.00	2.05	0.50	4.20	4.70	6.75
Welland	41,879,931	185	....	0.74	0.76	0.87	2.37	2.88	3.62	6.50	8.87
Wellington	35,425,709	57	....	0.64	....	1.50	2.14	1.47	1.88	3.35	5.49
Wentworth	29,077,757	109	3.80	0.51	0.05	1.94	6.30	1.68	2.50	4.18	10.48
York	124,446,842	233	0.69	0.20	0.41	1.05	2.35	3.27	4.33	7.60	9.95

APPENDIX

TYPICAL TAXATION

The local assessment of a representative township in each County has been
farm of

County Typical Township	Year	Farm assessment	Total taxes	Road taxes
Brant:—				
Dumfries S.	1934	$ 5,440.00	$ 125.71	$ 40.90
Dumfries S.	1935	5,450.00	129.21	45.01
Dumfries S.	1936	5,460.00	121.08	41.18
Bruce:—				
Culross	1934	3,040.00	60.40	14.35
Elderslie	1935	3,600.00	57.60	18.40
Elderslie	1936	3,500.00	54.60	15.75
Carleton:—				
Fitzroy	1934	2,420.00	88.58	43.63
Fitzroy	1935	2,420.00	91.98	37.37
Fitzroy	1936	2,429.00	93.23	36.25
Dufferin:—				
Mulmur	1934	2,050.00	60.58	18.57
Mulmur	1935	2,000.00	31.15	17.76
Melancthon	1936	2,300.00	56.15	17.96
Elgin:—				
Malahide	1934	4,400.00	78.32	20.68
Malahide	1935	4,300.00	74.52	18.92
Malahide	1936	4,340.00	77.69	20.40
Essex:—				
Gosfield S.	1934	10,000.00	211.28	56.39
Gosfield S.	1935	10,000.00	232.40	49.30
Gosfield S.	1936	9,700.00	309.53	58.49
Frontenac:—				
Pittsburg	1934	1,800.00	83.90	24.48
Pittsburg	1935	1,800.00	89.03	26.84
Pittsburg	1936	1,700.00	80.00	26.25
Grey:—				
Collingwood	1934	2,075.00	88.08	19.23
Collingwood	1935	2,200.00	70.84	23.21
Collingwood	1936	2,200.00	79.86	20.26
Haldimand:—				
Rainham	1934	4,500.00	124.83	41.38
Rainham	1935	4,600.00	133.72	52.67
Rainham	1936	4,600.00	136.34	52.16
Halton:—				
Esquesing	1934	3,500.00	95.62	34.13
Esquesing	1935	3,500.00	96.71	33.60
Esquesing	1936	3,500.00	94.50	32.59
Hastings:—				
Tyendinaga	1934	2,100.00	60.94	15.45
Tyendinaga	1935	2,000.00	58.88	15.14
Tyendinaga	1936	2,100.00	66.09	19.59
Huron:—				
Hay	1934	4,600.00	86.48	14.72
Hay	1935	4,700.00	92.54	19.69
Hay	1936	4,610.00	90.82	18.62
Kent:—				
Howard	1934	5,500.00	96.12	28.67
Howard	1935	7,500.00	161.77	46.12
Howard	1936	5,100.00	102.31	20.45
Lambton:—				
Plympton	1934	3,600.00	65.25	13.99
Plympton	1935	3,600.00	55.44	20.38
Plympton	1936	3,700.00	56.98	20.94
Lanark:—				
Lanark	1934	1,310.00	41.99	16.97
Lanark	1935	1,300.00	40.43	16.55
Lanark	1936	1,301.00	42.31	16.65

No. 15

ON A 100-ACRE FARM

arranged to show the proportion of road taxes to the total taxes on the basis of a 100 Acres.

Distribution of Road Taxes			Road Taxes Per Mile			Debentures	
King's Highways	County Roads	Township Roads	King's Highways	County Roads	Township Roads	King's Highways	County Roads
$ 14.41	$ 20.51	$ 5.98	$ .26	$ 0.22	$ 0.07	$ 8.54	$ 11.26
14.17	22.67	8.17	.20	.25	.09	8.44	11.22
10.87	22.12	8.19	.15	.24	.09	8.38	11.34
.34	8.84	5.17	.006	.03	.05	....	.25
5.86	8.08	4.46	.06	.03	.04	....	.24
.11	8.64	7.00	....	.03	.07	....	....
10.07	22.12	11.44	0.11	0.09	0.14	9.63	16.64
9.99	21.96	5.42	.10	.09	.07	9.99	19.86
9.95	19.43	6.87	.10	.07	.08	9.95	17.10
5.55	4.00	9.02	0.11	0.03	0.05	5.02	....
4.88	3.90	8.98	.10	.03	.05	4.88	....
6.90	4.48	6.58	.55	.14	.04	6.90	....
2.07	5.41	13.20	.027	.023	0.11	....	....
2.62	6.28	10.02	.34	.26	.08	....	....
3.77	6.34	10.29	.05	.03	.08	....	....
7.88	24.30	24.21	.06	.10	.40	....	.... 10.00
9.50	24.10	15.70	.07	.10	.26	....	10.00
12.41	26.68	19.40	.08	.11	.32	....	12.51
11.16	7.92	5.40	.09	.06	0.07	11.16	....
13.52	7.92	5.40	.09	.05	.09	13.52	....
12.48	9.86	3.91	.08	.06	.06	7.34	....
4.56	5.71	8.96	.04	.03	0.06	2.06	2.32
4.62	5.72	12.87	.03	.03	.09	2.09	2.35
7.46	5.92	6.88	.69	.50	.04	2.04	1.82
11.56	20.82	9.00	.18	.13	.18	11.56	6.73
13.20	21.07	18.40	.21	.14	.37	13.16	6.81
12.97	20.79	18.40	.21	.13	.37	12.97	6.72
6.34	18.76	9.03	.11	.15	.06	5.32	13.22
6.97	19.11	7.52	.12	.14	.05	5.32	13.55
6.86	18.17	7.56	.10	.14	.05	6.71	11.83
4.72	6.53	4.20	.05	.02	.03	....	1.81
4.50	6.64	4.00	.04	.02	.03	....	2.11
7.69	7.70	4.20	.06	.02	.03	....	2.10
2.76	5.75	6.21	.03	.016	.04	1.41	....
5.36	5.87	8.46	.04	.01	.07	1.43	....
4.56	5.76	8.30	.04	.02	.07	1.41	....
7.99	11.52	9.16	.06	.05	.08	....	....
11.10	15.00	20.02	.08	.06	.16	....	....
.46	10.61	9.38	....	.04	.08	....	....
.55	4.10	9.34	.005	.02	.06	....	....
5.94	3.89	10.55	.05	.02	.07	....	....
6 10	4.00	10.84	.05	.02	.07	....	....
3.65	9.58	3.74	.05	.04	.03	3.53	8.05
3.56	8.90	4.09	.05	.04	.04	3.00	8.09
3.43	9.14	4.08	.04	.04	.03	2.85	8.26

APPENDIX

TYPICAL TAXATION

The local assessment of a representative township in each County has been farm of

County Typical Township	Year	Farm assessment	Total taxes	Road taxes
Leeds and Grenville:—				
Kitley	1934	1,900.00	56.62	20.86
Kitley	1935	1,900.00	63.08	19.13
Kitley	1936	1,900.00	57.95	20.65
Lennox and Addington:—				
Fredericksburg N.	1934	3,000.00	114.00	35.82
Fredericksburg N.	1935	3,000.00	121.74	37.95
Fredericksburg N.	1936	3,000.00	120.00	38.52
Lincoln:—				
Clinton	1934	7,100.00	279.17	105.25
Clinton	1935	7,000.00	283.71	117.32
Clinton	1936	7,200.00	297.72	115.84
Middlesex:—				
Caradoc	1934	4,400.00	85.05	26.84
Caradoc	1935	4,400.00	84.39	24.11
Caradoc	1936	4,480.00	86.91	24.41
Norfolk:—				
Walsingham N.	1934	2,700.00	87.94	36.23
Walsingham N.	1935	2,900.00	82.07	31.52
Walsingham N.	1936	2,931.00	90.63	32.65
Northumberland and Durham:—				
Cavan	1934	2,500.00	67.10	19.51
Cavan	1935	2,500.00	71.05	19.03
Cavan	1936	2,400.00	67.94	18.05
Ontario:—				
Reach	1934	3,300.00	73.06	27.72
Reach	1935	3,300.00	73.79	28.84
Reach	1936	3,300.00	75.24	28.81
Oxford:—				
Oxford W.	1934	5,500.00	103.18	26.40
Oxford W.	1935	5,700.00	101.12	30.38
Oxford W.	1936	5,730.00	97.12	29.51
Peel:—				
Chinguacousy	1934	4,900.00	121.32	40.18
Chinguacousy	1935	4,900.00	118.75	47.82
Chinguacousy	1936	4,890.00	117.07	47.43
Perth:—				
Fullerton	1934	5,700.00	56.66	15.96
Fullerton	1935	5,700.00	56.09	21.55
Fullerton	1936	5,660.00	54.39	18.06
Peterborough:—				
Duoro	1934	2,300.00	63.46	16.86
Duoro	1935	2,300.00	70.45	19.20
Duoro	1936	2,200.00	65.16	18.68
Prescott and Russell:—				
Plantagenet S.	1934	3,200.00	107.96	40.76
Plantagenet S.	1935	3,210.00	109.59	41.54
Plantagenet S.	1936	3,200.00	109.47	41.73
Prince Edward:—				
Hillier	1934	3,500.00	86.73	24.43
Hillier	1935	3,500.00	90.83	25.41
Hillier	1936	3,500.00	90.20	21.84
Renfrew:—				
McNab	1934	1,650.00	71.11	22.45
McNab	1935	1,630.00	72.39	22.07
McNab	1936	1,553.00	65.68	20.58
Simcoe:—				
Flos	1934	3,220.00	89.71	20.87
Flos	1935	3,200.00	91.26	14.18
Flos	1936	3,200.00	94.98	17.89

No. 15

ON A 100-ACRE FARM

arranged to show the proportion of road taxes to the total taxes on the basis of a 100 Acres.

Distribution of Road Taxes			Road Taxes Per Mile			Debentures	
King's Highways	County Roads	Township Roads	King's Highways	County Roads	Township Roads	King's Highways	County Roads
7.90	11.40	1.56	.05	.04	.01	2.79	5.36
7.71	8.84	2.58	.04	.04	.02	2.79	5.36
7.79	8.91	3.95	.04	.04	.04	2.81	5.41
4.56	22.26	9.00	.05	.21	.23	4.05	17.40
4.26	24.69	9.00	.05	.19	.25	3.63	18.15
3.27	26.25	9.00	.04	.20	.25	3.27	19.68
9.86	67.42	27.97	.19	.49	.26	7.90	57.82
10.22	74.76	32.34	.20	.55	.31	6.86	58.17
16.12	71.64	28.08	.31	.53	.27	12.53	54.94
9.06	7.66	10.12	.06	.019	.07	6.12	2.63
11.75	7.96	4.40	.08	.02	.03	8.80	2.77
12.23	7.39	4.79	.08	.02	.03	11.87	2.78
5.28	24.20	6.75	.10	.11	.07	2.70	10.42
3.48	21.08	6.96	.06	.10	.07	2.93	12.06
3.43	22.19	7.03	.05	.11	.07	1.88	6.16
3.26	6.25	10.00	.03	.03	.08	2.75	4.45
2.80	6.23	10.00	.02	.03	.08	2.80	1.68
4.87	5.98	7.20	.04	.02	.05	2.23	3.60
7.46	10.36	9.90	.08	.05	.07	6.70	2.31
8.31	8.35	12.18	.09	.04	.09	6.73	2.34
7.99	9.17	11.65	.07	.05	.09	7.56	2.64
11.55	6.05	8.80	.20	.03	.11	....	4.45
6.33	11.51	12.54	.12	.06	.17	....	4.22
5.04	13.01	11.46	.09	.06	.16	4.76	4.01
14.21	13.72	12.25	.20	.09	.07	13.18	8.97
17.20	15.43	15.19	.24	.10	.09	14.41	8.17
17.41	17.80	12.22	.23	.12	.07	12.71	9.42
2.17	4.50	9.29	.18	.03	.07	....	....
7.75	4.45	9.35	.06	.03	.09	....	....
.68	4.92	12.46	.01	.03	.13	....	....
6.53	5.73	4.60	.10	.05	.06	2.29	....
7.38	6.53	5.29	.11	.05	.06	2.28	....
5.21	7.75	5.72	.08	.04	.07	2.17	....
....	33.63	7.13	....	.16	.07	....	26.46
....	33.71	7.83	....	.15	.08	....	26.56
....	33.70	8.03	....	.14	.09	....	26.53
2.38	13.34	8.71	.05	.09	.11	2.18	5.36
5.85	12.56	7.00	.12	.08	.08	2.19	4.56
3.11	13.48	5.25	.06	.09	.06	1.43	2.98
4.39	13.16	4.90	.08	.06	.05	3.91	12.72
3.93	13.22	4.92	.07	.06	.05	3.91	12.72
3.59	12.36	4.63	.07	.06	.05	3.23	11.95
5.03	3.38	12.46	.03	.01	.08	....	....
....	3.33	10.85	....	.01	.07	....	....
4.16	2.91	10.82	.02	.09	.08	....	....

APPENDIX
TYPICAL TAXATION

The local assessment of a representative township in each County has been farm of

County Typical Township	Year	Farm assessment	Total taxes	Road taxes
Stormont, Dundas and Glengarry:—				
Roxborough	1934	2,040.00	60.22	14.62
Roxborough	1935	2,390.00	74.83	16.66
Roxborough	1936	2,350.00	77.69	16.54
Victoria:—				
Verulam	1934	2,150.00	54.31	18.70
Verulam	1935	2,187.00	54.87	18.61
Verulam	1936	2,205.00	57.20	20.29
Waterloo:—				
Wilmot	1934	4,094.00	96.45	25.46
Wilmot	1935	4,966.00	121.05	34.86
Wilmot	1936	4,982.00	119.33	28.20
Welland:—				
Humberstone	1934	7,400.00	189.14	36.11
Humberstone	1935	7,400.00	180.49	33.37
Humberstone	1936	7,400.00	186.18	40.48
Wellington:—				
Eramosa	1934	4,767.00	75.89	22.40
Eramosa	1935	4,756.00	77.76	20.88
Eramosa	1936	4,750.00	78.65	20.25
Wentworth:—				
Flamboro E.	1934	7,720.00	253.98	68.24
Flamboro E.	1935	7,790.00	246.56	76.96
Flamboro E.	1936	7,660.00	274.31	81.50
York:—				
Markham	1934	7,500.00	298.72	42.52
Markham	1935	7,600.00	182.70	44.61
Markham	1936	7,500.00	187.05	43.26

No. 15

ON A 100-ACRE FARM

arranged to show the proportion of road taxes to the total taxes on the basis of a 100 Acres.

Distribution of Road Taxes			Road Taxes Per Mile			Debentures	
King's Highways	County Roads	Township Roads	King's Highways	County Roads	Township Roads	King's Highways	County Roads
3.79	5.53	5.30	.03	.01	.05	1.83	2.63
4.61	6.12	5.93	.04	.01	.06	2.04	3.00
4.68	7.16	4.70	.04	.02	.05	2.04	3.01
3.07	7.52	8.21	.04	.04	.06	1.84	1.77
2.60	7.42	8.59	.04	.04	.07	1.77	2.53
2.43	8.16	9.70	.03	.05	.09	2.14	2.51
.25	12.28	12.93	.005	.08	.10	....	1.51
6.10	13.02	15.74	.13	.09	.12	1.85	....
.34	13.04	14.82	.01	.73	.11	....	....
1.40	12.51	22.20	.02	.11	.21	....	5.71
.44	10.73	22.20	.01	.08	.21	....	5.77
5.70	12.58	22.20	.07	.11	.21	....	5.92
5.96	7.86	8.58	.05	.02	.10	....	....
3.33	7.89	9.66	.03	.02	.12	....	....
3.38	7.88	8.99	.03	.02	.11	....	....
38.60	19.22	10.42	.32	.13	.16	34.74	.54
35.60	24.22	17.14	.30	.13	.28	35.60	.52
45.57	21.07	14.86	.31	.83	.15	40.26	.48
7.72	12.15	22.65	.10	.04	.16	5.23	3.14
6.76	10.49	27.36	.09	.03	.19	5.26	3.08
6.67	10.87	25.72	.06	.04	.19	5.17	3.03

Report of Motor Vehicle Branch, 1936

To The Honourable T. B. McQuesten,
Minister of Highways.

Sir:—

I have the honour to submit herewith the annual report of the Motor Vehicles Branch for the year 1936.

Appended are the following:—

(a) A detailed statement of the motor vehicle permits and drivers' licenses issued for the calendar year 1936.

(b) A statement, duly certified by the Provincial Auditor, showing the revenue derived from all sources during the fiscal year ending March 31st, 1937.

(c) Reports detailing the activities of the Accident Recording Division and the Financial Responsibility Division of the Branch.

Generally the year was one of increased operations, every division showing advances over the 1935 business. This was true not only of vehicle registrations, drivers' licenses and Public Commercial Vehicle licenses but also in the number of accidents reported.

Motor Vehicle Registrations

Vehicle registrations during 1936 set new high records. The total for all classes for the first time exceeded 600,000 and passenger motor vehicles alone passed the half million mark for the first time. Passenger car registrations totalled 514,211, and an increase over 1935 of 24,601, which increase includes some 2,000 convertible permits issued this year at passenger car fees. Commercial vehicle registrations were up 3,103 to a total of 70,693 while the totals of trailers at 27,930 and motorcycles, 4,553 were also higher. Altogether vehicle registrations were 617,387 an increase of 29,079 or 5%.

Drivers' licenses

The total number of drivers' licenses issued surpassed the 1935 record by the substantial margin of 57,354 to reach a total of 842,189 and increasing the ratio of drivers to motor vehicles from 130 drivers per 100 motor vehicles in 1934 to 136 per 100 vehicles. Chauffeur licenses increased over 15,000, operators' licenses by more than 32,000 and instruction permits almost 10,000. The totals in each class were as follows:—

	1936	1935
Chauffeur	211,606	196,111
Operators	543,798	511,346
Instruction	86,785	77,378

Public Vehicles and Public Commercial Vehicles

New regulations respecting the operation and licensing of both Public and Public Commercial Vehicles became effective during this year. These regulations extended the insurance protection afforded the public, classified and strengthened the existing regulations, provided for reclassification of Public Commercial Vehicle licenses and a new schedule of Public Commercial Vehicle fees and permitted the collection of Public Vehicle fees on duplicated, special and chartered trips.

The number of Public Commercial Vehicle licenses issued increased approximately 25% to a total of 6,231 while Public Vehicle licenses numbered 695, an increase of about 20%. Revenue was also higher, a gross amount of $270,784.87 being deposited with the Provincial Treasurer. Of this amount $168,095.88 represented Public Commercial Vehicle fees.

Revenue

The gross revenue of the Branch for the fiscal year was $11,144,955.38, an increase of almost $2,000,000 over the previous year. This was the largest total ever collected in any year and resulted in a net revenue, after the deduction of commissions and refunds, of $10,916,491.08.

Financial Responsibility Division

This year saw the activities of this division sharply increased with the number of suspension cases handled rising almost 50%. There were altogether 4,932 suspension orders issued. Of these 1,072 were discretionary suspensions imposed by magistrates or by the Department while 3,860 were issued under the provisions of Part XIII of the Highway Traffic Act. As has been pointed out in previous reports, the value of the latter legislation is cumulative and to date since September 1st, 1930, there have been 21,345 suspension orders issued requiring proof of financial responsibility. Of these 6,963 were still in effect at December 31st, 1936.

Accident Recording Division

Accident figures showed some increase during the year 1936, an increase largely accounted for by the increase in traffic as evidenced by higher gasoline consumption and more numerous registrations. The safety promotion work of this Division was carried on as usual, monthly and special bulletins giving details of the accident record and directing attention to general, seasonal and special hazards were issued; a campaign of newspaper and billboard advertising, introducing the slogan "Try Courtesy" was conducted and radio programmes of an entertaining nature carrying safe driving messages designed for both adult and juvenile listeners were produced over Toronto and Hamilton radio stations. Material for radio talks and addresses at meetings was also supplied to automobile and service clubs in various communities.

The division recorded and analysed reports of 11,388 motor vehicle accidents resulting in 546 deaths, injury to 10,251 persons and causing property damage estimated at $1,241,851.

Respectfully submitted.

J. P. Bickell,
Registrar of Motor Vehicles.

COMPILED BY MOTOR VEHICLES BRANCH — DEPARTMENT OF HIGHWAYS
1936 STATISTICS
MOTOR VEHICLE REGISTRATIONS

Automobile Permits	514,211
Commercial Permits	70,693
Trailer Permits	27,930
Motorcycle Permits	4,553
Automobile Dealer's Permits	1,269
Motorcycle Dealer's Permits	8
Operators	542,960
Instruction Permits	86,785
Motorcycle Operators	838
Chauffeurs	211,606
In Transits	19,278
Transfers	99,080
Public Vehicles	695
Public Commercial Vehicles	6,231

PASSENGER CARS REGISTERED

Counties		Cities		
Algoma	2,692	Sault Ste. Marie	2,696	5,388
Brant	3,298	Brantford	4,431	7,729
Bruce	7,586			7,586
Carleton	5,320	Ottawa	17,829	23,149
Dufferin	2,779			2,779
Dundas	2,616			2,616
Durham	4,552			4,552
Elgin	5,189	St. Thomas	2,589	7,778
Essex	9,309	Windsor	14,295	23,604
Frontenac	2,844	Kingston	3,674	6,518
Glengarry	2,107			2,107
Grenville	2,613			2,613
Grey	6,611	Owen Sound	1,865	8,476
Haldimand	4,611			4,611
Haliburton	669			669
Halton	5,051			5,051
Hastings	6,984	Belleville	2,344	9,328
Huron	7,742			7,742
Kenora	1,699			1,699
Kent	9,557	Chatham	3,134	12,691
Lambton	6,702	Sarnia	3,250	9,952
Lanark	4,981			4,981
Leeds	5,145			5,145
Lennox and Addington	3,055			3,055
Lincoln	4,697	St. Catharines	4,512	9,209
Middlesex	8,625	London	12,485	21,110
Muskoka	2,737			2,737
Nipissing	2,983	North Bay	1,876	4,859
Norfolk	6,137			6,137
Northumberland	4,538			4,538
Ontario	5,784	Oshawa	4,341	10,125

PASSENGER CARS REGISTERED—*Continued*

Oxford	7,820	Woodstock	1,837	9,657
Parry Sound	2,663			2,663
Peel	5,457			5,457
Perth	6,157	Stratford	2,556	8,713
Peterborough	3,316	Peterborough	3,392	6,708
Prescott	1,857			1,857
Prince Edward	2,897			2,897
Rainy River	1,458			1,458
Renfrew	5,805			5,805
Russell	1,811			1,811
Simcoe	11,976			11,976
Stormont	4,388			4,388
Sudbury	2,047	Sudbury	3,185	5,232
Thunder Bay	1,457	Fort William	2,783	
		Port Arthur	2,529	6,769
Timiskaming	9,631			9,631
Victoria	4,655			4,655
Waterloo	7,378	Galt	2,065	
		Kitchener	4,321	13,764
Welland	7,286	Niagara Falls	3,872	
		Welland	1,961	13,119
Wellington	6,472	Guelph	2,944	9,416
Wentworth	5,397	Hamilton	21,208	26,605
York	18,690	Toronto	114,147	132,837
Miscellaneous	259			259
	268,090		246,121	514,211

1936

PASSENGER CARS

Cylinders and Horse Power

Four Cylinders	187,293	
Six Cylinders under 28 Horse Power	249,485	
Six Cylinders over 28 Horse Power	13,641	
Eight Cylinders under 35 Horse Power	57,869	
Eight Cylinders over 35 Horse Power	4,847	
Twelve Cylinders	283	
Sixteen Cylinders	34	
Electric	3	
Steam	2	
Free	754	
		514,211

Registrations

Originals	48,076	
Renewals	466,135	
		514,211

COMMERCIAL CARS REGISTERED

Counties		Cities		
Algoma	469	Sault Ste. Marie	432	901
Brant	448	Brantford	761	1,209
Bruce	613			613
Carleton	763	Ottawa	2,393	3,156
Dufferin	235			235
Dundas	238			238
Durham	420			420
Elgin	583	St. Thomas	288	871
Essex	1,473	Windsor	1,939	3,412
Frontenac	429	Kingston	588	1,017
Glengarry	227			227
Grenville	301			301
Grey	497	Owen Sound	253	750
Haldimand	501			501
Haliburton	81			81
Halton	780			780
Hastings	921	Belleville	374	1,295
Huron	682			682
Kenora	588			588
Kent	1,018	Chatham	615	1,633

COMMERCIAL CARS REGISTERED—*Continued*

Lambton	599	Sarnia	354	953
Lanark	450			450
Leeds	760			760
Lennox and Addington	384			384
Lincoln	1,114	St. Catharines	803	1,917
Middlesex	949	London	1,643	2,592
Muskoka	487			487
Nipissing	405	North Bay	340	745
Norfolk	818			818
Northumberland	618			618
Ontario	691	Oshawa	431	1,122
Oxford	946	Woodstock	270	1,216
Parry Sound	501			501
Peel	925			925
Perth	516	Stratford	324	840
Peterborough	343	Peterborough	481	824
Prescott	228			228
Prince Edward	386			386
Rainy River	357			357
Renfrew	557			557
Russell	273			273
Simcoe	1,484			1,484
Stormont	496			496
Sudbury	499	Sudbury	476	975
Thunder Bay	327	Fort William	558	
		Port Arthur	516	1,401
Timiskaming	1,195			1,195
Victoria	465			465
Waterloo	744	Galt	261	
		Kitchener	694	1,699
Welland	1,168	Niagara Falls	487	
		Welland	293	1,948
Wellington	509	Guelph	478	987
Wentworth	1,142	Hamilton	3,120	4,262
York	3,111	Toronto	16,683	19,794
Miscellaneous	124			124
	34,838		35,855	70,693

COMMERCIAL CARS REGISTERED

Tires

Pneumatic	67,410	
Solid	198	
Municipal	2,178	
Ontario Government Dominion Government	907	
		70,693

Gross Weight — Pneumatic Tires

Less than two tons	27,844	
Of two tons and up to three tons	15,571	
More than three tons and up to four tons	8,256	
More than four tons and up to five tons	5,130	
More than five tons and up to six tons	3,014	
More than six tons and up to seven tons	2,620	
More than seven tons and up to eight tons	2,611	
More than eight tons and up to nine tons	870	
More than nine tons and up to ten tons	1,302	
More than ten tons and up to eleven tons	94	
More than eleven tons and up to twelve tons	64	
More than twelve tons and up to thirteen tons	5	
More than thirteen tons and up to fourteen tons	3	
More than fourteen tons and up to fifteen tons	26	
		67,410

Gross Weight — Solid Tires

Less than two tons	5	
Of two tons and up to three tons	15	
More than three tons and up to four tons	9	
More than four tons and up to five tons	16	
More than five tons and up to six tons	15	
More than six tons and up to seven tons	16	
More than seven tons and up to eight tons	64	
More than eight tons and up to nine tons	22	
More than nine tons and up to ten tons	26	
More than ten tons and up to eleven tons	1	
More than eleven tons and up to twelve tons	6	
More than twelve tons and up to thirteen tons		
More than thirteen tons and up to fourteen tons		
More than fourteen tons and up to fifteen tons	3	
		198
Municipal	2,178	
Ontario Government Dominion Government	907	
		3,085
		70,693

Registrations

Originals	8,263	
Renewals	62,430	
		70,693

TRAILERS REGISTERED

Counties		Cities		
Algoma	87	Sault Ste. Marie	147	234
Brant	399	Brantford	228	627
Bruce	495			495
Carleton	349	Ottawa	532	881
Dufferin	153			153
Dundas	147			147
Durham	257			257
Elgin	592	St. Thomas	130	722
Essex	723	Windsor	515	1,238
Frontenac	129	Kingston	167	296
Glengarry	74			74
Grenville	96			96
Grey	346	Owen Sound	105	451
Haldimand	388			388
Haliburton	39			39
Halton	276			276
Hastings	674	Belleville	160	834
Huron	342			342
Kenora	45			45
Kent	829	Chatham	197	1,026
Lambton	682	Sarnia	131	813
Lanark	254			254
Leeds	216			216
Lennox and Addington	193			193
Lincoln	286	St. Catharines	199	485
Middlesex	874	London	565	1,439
Muskoka	117			117
Nipissing	62	North Bay	77	139
Norfolk	619			619
Northumberland	306			306
Ontario	289	Oshawa	246	535
Oxford	642	Woodstock	68	710
Parry Sound	83			83
Peel	395			395
Perth	591	Stratford	141	732
Peterborough	183	Peterborough	179	362
Prescott	92			92
Prince Edward	237			237
Rainy River	184			184
Renfrew	293			293

TRAILERS REGISTERED—*Continued*

Russell	71		....	71
Simcoe	608		....	608
Stormont	159		....	159
Sudbury	66	Sudbury	72	138
Thunder Bay	43	Fort William	135	....
		Port Arthur	65	243
Timiskaming	292		....	292
Victoria	254		....	254
Waterloo	515	Galt	97	....
		Kitchener	215	827
Welland	412	Niagara Falls	167	....
		Welland	93	672
Wellington	417	Guelph	133	550
Wentworth	492	Hamilton	1,037	1,529
York	1,076	Toronto	4,550	5,626
Miscellaneous	136		....	136
	17,579		10,351	27,930

Trailer Gross Weight

One tons or less	24,270
More than one ton and up to two tons	868
More than two tons and up to three tons	299
More than three tons and up to four tons	221
More than four tons and up to five tons	356
More than five tons and up to six tons	332
More than six tons and up to seven tons	394
More than seven tons and up to eight tons	707
More than eight tons and up to nine tons	17
More than nine tons and up to ten tons	80
More than ten tons and up to eleven tons	1
More than eleven tons and up to twelve tons	....
More than twelve tons and up to thirteen tons	....
More than thirteen tons and up to fourteen	....
More than fourteen tons and up to fifteen	12
Municipal	289
Free	84
	27,930

AUTOMOBILE DEALERS REGISTERED

Counties		Cities		
Algoma	1	Sault Ste. Marie	11	12
Brant	7	Brantford	16	23
Bruce	7		....	7
Carleton	10	Ottawa	59	69
Dufferin	6		....	6
Dundas	10		....	10
Durham	8		....	8
Elgin	4	St. Thomas	8	12
Essex	12	Windsor	57	69
Frontenac	2	Kingston	20	22
Glengarry	3		....	3
Grenville	6		....	6
Grey	8	Owen Sound	7	15
Haldimand	14		....	14
Haliburton	1		....	1
Halton	8		....	8
Hastings	17	Belleville	9	26
Huron	10		....	10
Kenora	10		....	10
Kent	11	Chatham	12	23
Lambton	5	Sarnia	8	13
Lanark	13		....	13
Leeds	12		....	12
Lennox and Addington	3		....	3
Lincoln	2	St. Catharines	18	20
Middlesex	2	London	28	30

AUTOMOBILE DEALERS REGISTERED—*Continued*

Muskoka	7		....	7
Nipissing	4	North Bay	5	9
Norfolk	8		....	8
Northumberland	9		....	9
Ontario	8	Oshawa	49	57
Oxford	19	Woodstock	8	27
Parry Sound	8		....	8
Peel	8		....	8
Perth	12	Stratford	11	23
Peterborough	....	Peterborough	12	12
Prescott	14		....	14
Prince Edward	9		....	9
Rainy River	5		....	5
Renfrew	22		....	22
Russell	3		....	3
Simcoe	26		....	26
Stormont	17		....	17
Sudbury	2	Sudbury	12	14
Thunder Bay	4	Fort William	12	....
		Port Arthur	7	23
Timiskaming	38		....	38
Victoria	12		....	12
Waterloo	6	Galt	6	....
		Kitchener	15	27
Welland	9	Niagara Falls	6	....
		Welland	6	21
Wellington	11	Guelph	17	28
Wentworth	6	Hamilton	70	76
York	34	Toronto	287	321
Miscellaneous	....		....	....
	493		776	1,269

MOTOR CYCLES REGISTERED

Counties		Cities		
Algoma	14	Sault Ste. Marie	27	41
Brant	27	Brantford	30	57
Bruce	23		....	23
Carleton	37	Ottawa	208	245
Dufferin	6		....	6
Dundas	22		....	22
Durham	25		....	25
Elgin	49	St. Thomas	31	80
Essex	51	Windsor	81	132
Frontenac	10	Kingston	60	70
Glengarry	12		....	12
Grenville	16		....	16
Grey	29	Owen Sound	10	39
Haldimand	30		....	30
Haliburton	....		....	....
Halton	48		....	48
Hastings	42	Belleville	20	62
Huron	56		....	56
Kenora	16		....	16
Kent	28	Chatham	17	45
Lambton	27	Sarnia	12	39
Lanark	31		....	31
Leeds	36		....	36
Lennox and Addington	16		....	16
Lincoln	62	St. Catharines	26	88
Middlesex	50	London	140	190
Muskoka	32		....	32
Nipissing	26	North Bay	14	40
Norfolk	49		....	49
Northumberland	41		....	41
Ontario	42	Oshawa	46	88
Oxford	50	Woodstock	20	70
Parry Sound	15		....	15
Peel	46		....	46

MOTOR CYCLES REGISTERED—*Continued*

Perth	25	Stratford	31	56
Peterborough	7	Peterborough	38	45
Prescott	24			24
Prince Edward	21			21
Rainy River	4			4
Renfrew	26			26
Russell	9			9
Simcoe	82			82
Stormont	78			78
Sudbury	8	Sudbury	31	39
Thunder Bay	10	Fort William	29	
		Port Arthur	19	58
Timiskaming	123			123
Victoria	15			15
Waterloo	75	Galt	16	
		Kitchener	79	170
Welland	70	Niagara Falls	21	
		Welland	22	113
Wellington	45	Guelph	15	60
Wentworth	51	Hamilton	188	239
York	220	Toronto	1,365	1,585
Miscellaneous				
	1,957		2,596	4,553

MOTOR VEHICLES BRANCH
Highways Department
Revenue for Fiscal Year 1936-1937

		Gross	Deductions	Net
Passenger Car Permits		$ 6,258,979.00	$ 104,091.55	$ 6,154,887.45
Commercial Permits		2,970,912.50	14,442.56	2,956,469.94
Dealers' Permits		34,252.00	25.00	34,227.00
Motorcycle Dealers' Permits		96.00		96.00
Trailer Permits		277,449.50	5,930.81	271,518.69
Two Purpose Permits		17,639.00	327.55	17,311.45
Chauffeurs		259,152.00	20,277.10	238,874.90
Operators and Instruction		664,852.50	62,038.80	602,813.70
Motorcycle Permits		13,681.00	451.05	13,229.95
Transfers		239,795.00	12,835.20	226,959.80
Duplicate Cards		8,254.00	2.50	8,251.50
In Transits		11,465.00	1,241.70	10,223.30
Certificates and Searches		476.95		476.95
Fines		99,057.00	309.00	98,748.00
Lists		362.63		362.63
Public Vehicles		102,688.99		102,688.99
Public Commercial Vehicles		168,095.88	6,422.00	161,673.88
Postage		83.93		83.93
Testing Headlights		80.00		80.00
Testing Safety Glass		300.00		300.00
Examination Fees		17,175.00	14.00	17,161.00
Miscellaneous		107.50		107.50
		$ 11,144,955.38	$ 228,408.82	$ 10,916,546.56
Balances due from Agents		$ 86.60		
Less amount overcharged on:—				
Commercials	$ 24.00			
Transfers	1.00			
Trailers	11.00			
Passengers Cars	27.00			
		63.00		
1935-36 Overdrawn Credits		125.80		
Adjustments on Previous Balances		6.00	281.40	
		$ 11,144,955.38	$ 228,690.22	$ 10,916,265.16
Bank Interest	7.32			
1935-36 Balances Paid	218.40			
1935-36 Underdrawn Paid	.20			
				225.92
				$ 10,916,491.08

MOTOR VEHICLES BRANCH

Highways Department

Revenue for Fiscal Year 1936-1937

Passenger Car Permits		$ 6,258,979.00		
Commercial Permits		2,970,912.50		
Dealers' Permits		34,252.00		
Motorcycle Dealer Permits		96.00		
Trailer Permits		277,449.50		
Two Purpose Permits		17,639.00		
Chauffeurs		259,152.00		
Operators and Instructions		664,852.50		
Motorcycle Permits		13,681.00		
Transfers		239,795.00		
Duplicate Cards		8,254.00		
In Transits		11,465.00		
Certificates and Searches		476.95		
Fines		99,057.00		
Lists		362.63		
Public Vehicles		102,688.99		
Public Commercial Vehicles		168,095.88		
Postage		83.93		
Testing Headlights		80.00		
Testing Safety Glass		300.00		
Examination Fees		17,175.00		
Miscellaneous		107.50		
			$ 11,144,955.38	
Less:—				
Commissions deducted by Agents		$ 219,165.75		
Refunds deducted by Provincial Treasurer		3,034.07		
Balances due from Agents		86.60		
Amounts overcharged on:—				
Passenger Cars	$ 27.00			
Commercials	24.00			
Transfers	1.00			
Trailers	11.00			
		63.00		
Journal entry re-Fine		10.00		
Journal entries re Ont. Munic. Board fees		6,177.00		
1935-36 Overdrawn Credits		125.80		
Cheques charged back as N.S.F.:—				
People's Fuel (Pass. Car)	$ 7.00			
G. Wilfred Carrow (P.C.V.)	15.00			
		22.00		
Adjustments on previous balances		6.00		
			228,690.22	10,916,265.16
Bank Interest	$ 7.32			
1935-36 Balances paid	218.40			
1935-36 Underdrawn paid	.20			
				225.92
				$ 10,916,491.08

MOTOR VEHICLES BRANCH

Highways Department

Itemized Statement of Receipts for Fiscal Year 1936-1937

PASSENGER CARS:—

192,304 at	$ 7.00	4 cyl.	$ 1,346,128.00	
3,321 at	3.50	(half fee)	11,623.50	
280,427 at	12.00	6 cyl.	3,365,124.00	
4,488 at	6.00	(half fee)	26,928.00	
21,574 at	15.00	6 cyl.	323,610.00	
359 at	7.50	(half fee)	2,692.50	
69,448 at	15.00	8 cyl.	1,041,720.00	
1,201 at	7.50	(half fee)	9,007.50	
5,448 at	20.00	8 cyl.	108,960.00	
132 at	10.00	(half fee)	1,320.00	
440 at	30.00	12 cyl.	13,200.00	
22 at	15.00	(half fee)	330.00	
30 at	40.00	16 cyl.	1,200.00	
1 at	20.00	Electric	20.00	
2 at	20.00	Steam	40.00	
3,438 at	2.00	New Sets	6,876.00	
57		No Fee New Sets.		
701		Free.		
(583,393)		Balance of Fees	199.50	$ 6,258,979.00

COMMERCIALS:—

Pneumatic Tires

29,953 at	$ 10.00		$ 299,530.00
1,186 at	5.00	(half fee)	5,930.00
15,427 at	24.00		370,248.00
783 at	12.00	(half fee)	9,396.00
2 at	6.00	(quarter fee)	12.00
8,270 at	48.00		396,960.00
338 at	24.00	(half fee)	8,112.00
5,587 at	65.00		363,155.00
203 at	32.50	(half fee)	6,597.50
3,236 at	84.00		271,824.00
126 at	42.00	(half fee)	5,292.00
2 at	21.00	(quarter fee)	42.00
2,863 at	98.00		280,574.00
126 at	49.00	(half fee)	6,174.00
3,022 at	112.00		338,464.00
173 at	56.00	(half fee)	9,688.00
2 at	28.00	(quarter fee)	56.00
1,048 at	144.00		150,912.00
61 at	72.00	(half fee)	4,392.00
1,319 at	170.00		224,230.00
45 at	85.00	(half fee)	3,825.00
9 at	198.00		1,782.00
23 at	228.00		5,244.00
3 at	114.00	(half fee)	342.00
6 at	260.00		1,560.00
9 at	294.00		2,646.00
23 at	330.00		7,590.00
1 at	100.00	Special	100.00

Solid Tires

4 at	$ 16.00		$ 64.00
13 at	33.00		429.00
2 at	16.50	(half fee)	33.00
7 at	60.00		420.00
11 at	80.00		880.00
7 at	102.00		714.00
15 at	119.00		1,785.00
52 at	136.00		7,072.00
2 at	68.00	(half fee)	136.00
22 at	171.00		3,762.00
1 at	85.50	(half fee)	85.50
55 at	200.00		11,000.00
3 at	100.00	(half fee)	300.00
1 at	231.00		231.00

7 at 264.00	1,848.00	
1 at 132.00 (half fee)	132.00	
2 at 299.00	598.00	
9 at 375.00	3,375.00	
1 at 187.50 (half fee)	187.50	
2,307 at 2.00 Munic	4,614.00	
1,374 at 2.00 New Sets	2,748.00	
9 No Fee New Sets.		
867 Free.		
Incr. Capacity	75,708.50	
Bal. of Fees (1934)	102.00	
Bal. of Fees (1935)	421.00	
Bal. of Fees (1936)	608.00	
BUSES:— **Pneumatic Tires**		
1 at $ 10.00	$ 10.00	
24 at 24.00	576.00	
1 at 12.00 (half fee)	12.00	
27 at 36.00	972.00	
1 at 18.00 (half fee)	18.00	
86 at 55.00	4,730.00	
5 at 27.50 (half fee)	137.50	
128 at 72.00	9,216.00	
169 at 84.00	14,196.00	
12 at 42.00 (half fee)	504.00	
105 at 96.00	10,080.00	
1 at 48.00 (half fee)	48.00	
35 at 117.00	4,095.00	
75 at 130.00	9,750.00	
74 at 165.00	12,210.00	
54 at 180.00	9,720.00	
Solid Tires		
2 at $105.00	$ 210.00	
8 at 160.00	1,280.00	
4 at 144.00	756.00	
2 at 216.00	432.00	
1 at 108.00 (half fee)	108.00	
8 at 2.00 New Sets	16.00	
1 at Free.		
1 at Free.		
(79,442) Incr. Capacity	85.00	
		$ 2,970,912.50
"M" DEALERS:—		
1,365 at $ 25.00	$ 34,125.00	
6 at 12.50 (half fee)	75.00	
16 at 2.00 New Sests	52.00	
		$ 34,252.00
(1,397) "M.C" DEALERS:—		
15 at 6.00	$ 90.00	
(17) 2 at 3.00 (half fee)	6.00	
		$ 96.00
TRAILERS:—		
27,507 at $ 3.00	$ 82,521.00	
2,322 at 1.50 (half fee)	3,483.00	
897 at 10.00	8,970.00	
74 at 5.00 (half fee)	370.00	
270 at 21.00	5,670.00	
31 at 10.50 (half fee)	325.50	
177 at 32.00	5,664.00	
18 at 16.00 (half fee)	288.00	
277 at 50.00	13,850.00	
12 at 25.00 (half fee)	300.00	

362 at 66.00	23,892.00	
15 at 33.00 (half fee)	495.00	
453 at 77.00	34,881.00	
22 at 38.50 (half fee)	847.00	
846 at 88.00	74,448.00	
21 at 44.00 (half fee)	924.00	
22 at 108.00	2,376.00	
96 at 120.00	11,520.00	
9 at 60.00 (half fee)	540.00	
1 at 30.00 (quarter fee)	30.00	
14 at 210.00	2,940.00	
1 at 100.00 Special	100.00	
295 at 2.00 Munic.	590.00	
151 at 1.00 New Sets	151.00	
83 at Free.		
(33,976)		
Increased Capacity	2,216.00	
Bal. of Fees (1935)	29.00	
Bal. of Fees (1936)	29.00	
		$ 277,449.50
TWO PURPOSE:—		
1,221 at $ 7.00 4 cyl.	$ 8,547.00	
45 at 3.50 (half fee)	157.50	
635 at 12.00 6 cyl.	7,620.00	
9 at 6.00 (half fee)	54.00	
19 at 15.00 6 cyl.	285.00	
46 at 15.00 8 cyl.	690.00	
1 at 7.50 (half fee)	7.50	
1 at 20.00 8 cyl.	20.00	
124 at 2.00 New Sets	248.00	
9 at Free New Sets.		
(2,110)		
Bal. of Fees	10.00	
		$ 17,639.00
CHAUFFEURS:—		
20,056 at $ 2.00 Originals	$ 40,112.00	
3,957 at 1.00 Orig. (half fee)	3,957.00	
212,824 at 1.00 Renewals	212,824.00	
24 at Free Renewals.		
(236,861)		
Prev. year fees (1936)	750.00	
Prev. year fees (1935)	1,493.00	
Prev. year fees (1934)	16.00	
		$ 259,152.00
OPERATORS:—		
612,884 at $ 1.00 Operators	$ 612,884.00	
94,403 at .50 Instruct.	47,201.50	
845 at 1.00 M. C. Oper.	845.00	
3 at Free Oper.		
2 at Free M. C. Oper.		
(708,137)		
Prev. year Oper. Fees (1936)	$ 1,487.00	
Prev. year Oper. Fees (1935)	2,404.00	
Prev. year Oper. Fees (1934)	24.00	
Prev. year M. C. Oper. Fees (1936)	2.00	
Prev. year M. C. Oper. Fees (1935)	5.00	
		$ 664,852.50
MOTOR CYCLES:—		
4,410 at $ 3.00	$ 13,230.00	
148 at 1.50 (half fee)	222.00	
7 at 1.00 New Sets	7.00	
111 at 2.00 Munic.	222.00	
223 at Free.		
(4,899)		
		$ 13,681.00

Transfers:—

100,242 at	$ 2.00	Passenger	$ 200,484.00	
6,704 at	2.00	Commercial	13,408.00	
771 at	1.00	M. Cycles	771.00	
157 at	2.00	Two Purp.	314.00	
186 at	2.00	Trailers	372.00	
20 at	2.00	"M" Dealers	40.00	
(108,080)				
22,789 at	1.00	Dlrs' Pass.	22,789.00	
1,617 at	1.00	Dlrs' Comm.	1,617.00	
(24,406)				$ 239,795.00

Duplicate Cards:—

3,540 at	$ 0.50	Pass.	$ 1,770.00	
669 at	.50	Comm.	334.50	
56 at	.50	M. Cycles	28.00	
10 at	.50	Two Purp.	5.00	
99 at	.50	Trailers	49.50	
872 at	.50	Pass. Trans.	436.00	
86 at	.50	Comm. Trans.	43.00	
16 at	.50	M. C. Trans.	8.00	
5 at	.50	Two Purp.	2.50	
1 at	.50	Trailer Trans.	.50	
33 at	.50	Dlrs' Pass.	16.50	
3 at	.50	Dlrs' Comm.	1.50	
456 at	.50	Chauff. Orig.	228.00	
3,694 at	.50	Chauff. Renls.	1,847.00	
6,831 at	.50	Oper.	3,415.50	
9 at	.50	M. C. Oper.	4.50	
3 at	.50	Instructions	1.50	
(16,383)				
113 a	.50	(1935)	56.50	
12 at	.50	(1934)	6.00	
				$ 8,254.00

In Transits:—

22,930 at	$ 0.50	$ 11,465.00	$ 11,465.00

Searches and Certificates:—

846 at	$ 0.25	$ 211.50	
147 at	.50	73.50	
1 at	.60	.60	
64 at	.75	48.00	
44 at	1.00	44.00	
9 at	1.25	11.25	
4 at	1.50	6.00	
10 at	1.75	17.50	
1 at	1.80	1.80	
10 at	2.00	20.00	
1 at	2.20	2.20	
2 at	2.25	4.50	
2 at	2.50	5.00	
1 at	2.60	2.60	
1 at	2.75	2.75	
3 at	3.00	9.00	
1 at	3.50	3.50	
1 at	3.75	3.75	
1 at	4.50	4.50	
1 at	5.00	5.00	
(1,150)			
			$ 476.95

Miscellaneous	$ 107.50
Fines	99,057.00
Lists	362.63
Public Vehicles	102,688.99
Public Commercial Vehicles	168,095.88
Postage	83.93
Testing Headlights	80.00
Testing Safety Glass	300.00

EXAMINATION FEES		$ 17,175.00	
COMMISSIONS PAID TO AGENTS:—			
Passenger Cars	$ 102,879.30		
Commercials	13,585.40		
Two Purpose	312.55		
Motor Cycles	439.05		
Trailers	5,873.15		
Transfers	12,834.20		
In Transits	946.70		
Operators and Instructions	62,020.30		
Chauffeurs	20,275.10		
		$ 219,165.75	
REFUNDS:—			
Passenger Cars	$ 1,205.25		
Commercials	857.16		
Trailers	57.66		
Two Purpose	15.00		
"M" Dealers	25.00		
Chauffeurs	2.00		
Operators and Instructions	18.50		
Motor Cycles	12.00		
Transfers	1.00		
Fines	299.00		
Public Commercial Vehicles	230.00		
Examination Fees	14.00		
Duplicate Cards	2.50		
In Transits	295.00		
		3,034.07	
LESS AMOUNT OVERCHARGED ON:—			
Trailers	11.00		
Dlr's. Comm. Transfer	1.00		
Passenger Cars	27.00		
Commercials	24.00		
		63.00	
1935–1936 Overdrawn Credits		125.80	
1936–1937 Balances due from Agents		86.60	
Journal entry re Ont. Munic. Board Fees		6,177.00	
Journal entre re Fine		10.00	
CHEQUES CHARGED BACK AS N. S. F.:—			
People's Fuel (Pass. Car)	$ 7.00		
G. Wilfred Carrow (P.C.V.)	15.00		
		22.00	
Adjustments on Prev. Balances		6.00	
Deposited with Treasury as shown by Treasurer's Statement		10,916,491.08	
		$ 11,145,181.30	
Interest	$ 7.32		
1935-1936 Bals. Paid	218.40		
1935-1936 Underdrawn Paid	.20		
			225.92
	$ 11,144,955.38		$ 11,144,955.38

REPORT OF THE FINANCIAL RESPONSIBILITY DIVISION FOR THE YEAR 1936

The drivers' records compiled in this division at the end of the year 1936 covered the operating histories of more than 200,000 Ontario drivers who, since September 1st, 1930, had been involved in a reportable accident, had been convicted of an offence against the Highway Traffic Act or of the provisions of the Criminal Code relating to the use of motor vehicles, who had failed to satisfy judgment for damages occasioned by a motor vehicle, been the subject of a complaint as to actions while driving, or had been suspended because of physical or mental unfitness or for any other reason.

During 1936, 4,932 suspension orders were issued. Of these 3,860 required the filing of proof of financial responsibility. Reckless driving continued to be the major cause for suspension of licenses, with failure to maintain proof of financial responsibility, as required, as the second most important cause in point of number of suspension.

The increased use of drivers' records as a means of removing dangerous individuals from our highways is indicated by the increased number of suspensions issued for "other offences" which classification includes Departmental suspensions based on these records rather than any individual offence.

The following tables show the number of Financial Responsibility suspensions made effective during the year 1936 and from September 1st, 1930, to December 31st, 1936, and the number of suspensions relieved during the same periods. The third table shows the number of non-financial responsibility suspensions enforced during these periods.

FINANCIAL RESPONSIBILITY SUSPENSIONS

Cause	1936	Sept. 1, 1930 to Dec. 31, 1936
Reckless driving	1,711	7,550
Speeding	84	269
Racing	2	11
No driver's license	212	4,344
Criminal negligence	26	191
Other offences	95	529
Unsatisfied judgments	82	405
Policy Cancellations	894	4,069
Fail to remain at accident	232	1,094
Driving while intoxicated	522	2,883
Totals	3,860	21,345

FINANCIAL RESPONSIBILITY SUSPENSIONS LIFTED

Cause	1936	Sept. 1, 1930 to Dec. 31, 1936
Reckless driving	988	4,628
Speeding	55	189
Racing	2	11
No driver's license	95	4,021
Criminal negligence	7	82
Other offences	27	137
Unsatisfied judgments	35	119
Policy Cancellations	447	2,492
Fail to remain at accident	116	677
Driving while intoxicated	165	1,072
Expiry (not classified)	480	954
Totals	2,417	14,382

NON-FINANCIAL RESPONSIBILITY SUSPENSIONS

Cause	1936	Sept. 1, 1930 to Dec. 31, 1936
Reckless driving	768	4,105
Speeding	73	266
Racing	....	4
No driver's license	6	17
Criminal negligence	....	44
Other offences	203	592
Unsatisfied judgments	6	37
Fail to remain at accident	8	24
Driving while intoxicated	8	67
Totals	1,072	5,116

ONTARIO MOTOR VEHICLE ACCIDENT STATISTICS — 1936

During 1936, reports of 11,388 motor vehicle accidents were received representing an increase of 6.9 per cent. from the corresponding total for 1935.

NATURE OF ACCIDENTS REPORTED:—

Of the 11,388 mishaps reported, 501 resulted in fatal injuries to one or more persons, 7,803 caused personal injury, and 3,084 resulted in property damage only.

As compared with the general advance in the number of accidents reported amounting to 6.9 per cent., 'personal injury' accidents showed an increase of 5.9 per cent., and 'property damage only' mishaps advanced by 10.8. Fatal accidents (501) were unchanged from the previous year's total.

ACCIDENTS BY TYPE OF COLLISION:—

Of the various types of accidents reported, the most signifiant increases were the result of 'collisions with bicycles', 9.6% increase; 'collisions between motor vehicles', 8.2 per cent. advance; and 'collision with fixed object' accidents increased in number by 7.1 per cent. Collisions with bicycles and collisions with fixed objects were the only classes of accident which have shown an increase in each succeeding year since 1931.

FATAL ACCIDENTS BY TYPE OF COLLISION:—

Of the 501 fatal accidents reported during the year, 233 were of the 'collision with pedestrian' type, 82 involved collisions between motor vehicles, 60 were non-collision accidents, and 41 involved collisions with fixed objects. While there was no change in the total fatal accidents reported from the corresponding total for 1935, fatal mishaps involving collisions between motor vehicles increased in number by 26.2 per cent.

URBAN AND RURAL ACCIDENTS:—

In the following sections 'urban' accidents will include mishaps which occurred within the limits of incorporated cities, towns and villages of the Province, and accidents classified as 'rural' will include those which happened on the King's Highways, county roads and township roads.

While it should be kept in mind that the reduction in the number and seriousness of accidents is a 'wholesale' problem since it involves fundamental causes which apply regardless of location, nevertheless a knowledge of the variations to be found in urban and rural experience is essential to a proper approach and correction can best be brought about with these differences in mind.

During 1936, there were 7,048 urban accidents reported or 61.9 per cent. of the provincial total. More than nine of every ten (92.5%) of the urban mishaps fell within four type classifications: 'collision with pedestrian' (2,887), 41.0 per cent.; 'collision with other motor vehicle' (2,295), 32.6 per cent.; 'collision with bicycle' (967), 13.7 per cent.; and 'collision with fixed object' (366), 5.2 per cent.

Urban fatal mishaps (193) accounted for 38.5 per cent. of the Ontario total reported during 1936. Pedestrian accidents (131) made up the largest share (67.9%), followed by the collision with other motor vehicle and collision with bicycle types with 17 and 15 fatal accidents, respectively.

As compared with the 6.9 per cent. advance in all Ontario accidents during 1936, urban accidents increased from the 1935 total 8.3 per cent. Urban accidents involving collisions with fixed objects advanced by 10.9 per cent.; the 'collision with bicycle' type was 9.8 per cent. above the corresponding total for 1935, while collisions with other motor vehicles and with pedestrians increased 9.1 per cent. and 8.8 per cent.

While urban fatal accidents (193) were one less in number than in 1935, the 'collision with pedestrian' type — which made up more than two-thirds (67.9%) of the total — showed an increase of 12.9 per cent. Fatal accidents involving collisions between motor vehicles (17) were two above the total for 1935 while the remaining nine types of mishap classified showed a decreased frequency from the same totals for the previous year.

Rural accidents reported (4,340) made up 38.1 per cent. of the Ontario total during 1936. Of the 4,340 rural accidents, almost 90 per cent. were of four types: Collision with other motor vehicle (2,157), 49.7 per cent; non-collision accidents (616), 14.2 per cent; collision with fixed object (572), 13.2 per cent.; and collisions with pedestrians (504), 11.6 per cent.

Considerable variation from these percentages was found in the distribution of rural fatal accidents which made up 61.5 per cent. of the provincial total. Of the 308 mishaps of this nature reported, 102 (33.1%) were collisions with pedestrians; 65 (21.1%) resulted from collisions between motor vehicles; non-collision accidents (55) made up 17.9 per cent. of the total; and 34 fatal accidents (11.0% of total) were of the 'collision with fixed object' type.

As compared with the 6.9 per cent. advance in all accidents reported and the increase of 8.3 per cent. in urban mishaps, accidents on rural roads showed a percentage gain of 4.9. Six of the eleven types of rural accidents decreased in number from the 1935 totals. The non-collision class showed the greatest (14.3%) rate of increase, followed by collisions with bicycles, 8.8 per cent. advance, and collisions with other motor vehicles and with fixed objects with increases of 7.3 per cent. and 5.8 per cent., respectively.

The number of rural fatal accidents (308) was one above the total for the previous year. The most significant increases were found in the number of collisions with other motor vehicles (30% gain) and in non-collision accidents which showed a 12.2 per cent. advance.

ACCIDENTS DETAILED BY LOCATION:—

More than half (56.3%) of the accidents reported during 1936 occurred in the incorporated cities of the Province. King's Highway accidents made up the next largest share (24.2%) followed by those on county and township roads which comprised 9.4 and 4.5 per cent., respectively.

In contrast with the increase in all accidents amounting to 6.9 per cent., mishaps on city streets showed a gain of 8.8 per cent. from the 1935 total, while the percentage advances on the King's Highways and township roads were 6.8 per cent. and 5.7 per cent.

Considerable variation from the above percentages was observed in the distribution of fatal accidents. Accidents on the King's Highways — which accounted for 24.2 per cent. of the Ontario total — resulted in more than a third (33.7%) of the fatal mishaps, while city accidents, which made up 56.3 per cent. of all mishaps, accounted for only 27.9 per cent. of the fatal cases. The higher fatal rate of rural accidents is further indicated by the 'county' and 'township' road classifications which included 18.0 per cent. and 9.8 per cent. of the fatal accidents but only 9.4 and 4.5 per cent. of all accidents.

Fatal accidents on the township roads and in villages increased in number while those in the four remaining classifications decreased from the corresponding totals for 1935.

PERSONS FATALLY INJURED:—

During 1936 there were 546 persons fatally injured in Ontario as the result of motor vehicle accidents. Of this total, 235 (43.0%) resulted from the 'collision with pedestrian' type of accident; 95 deaths (17.4% of total) were due to the 'collision with other motor vehicle' class of accident; and 12.2 per cent. were the result of non-collision accidents. Fatalities resulting from collisions with fixed objects and collisions with railroad trains made up 7.9 per cent. and 7.3 per cent. of the total.

Children and elderly people were, proportionately, the greatest sufferers in pedestrian accidents. In the age group '0-4 years' 88.5 per cent. of the children fatally injured were pedestrians; in the age group '5-14 years' 77.6 per cent. were pedestrians; and in the age class '65 years and over' 67.5 per cent. were pedestrians.

On the other hand, only 19.2 per cent. of the fatalities in age group '15 to 35 years' resulted from the 'collision with pedestrian' type of accident. In the latter group, 22.1 per cent. received their injury in collisions between motor vehicles, 17.4 per cent. were the result of non-collision accidents, and 14.5 per cent. were the result of collisions with fixed objects.

SEX AND AGE OF DRIVERS IN ACCIDENTS:—

Of the 16,070 drivers in reported accidents during the year, 15,037 or 93.6 per cent. were male and 1,033 or 6.4 per cent. were female. Obviously, in the absence of several important factors, this ratio of 15 to 1 does not measure the relative driving dependability of the two sexes, since the mileage driven by women drivers generally is less than that of male operators. It is believed that the better experience suggested by the accident data is to an indeterminable extent the result of less exposure to the possibility of accident.

Of the drivers of stated age, involved in motor vehicle accidents during 1936, more than two-thirds (67.5%) were between 25 and 54 years of age, and 22.7 per cent. were between 18 and 24 years of age.

The percentages of drivers in the various age groups do not necessarily give indication of the driving ability of drivers in these groups since no data are available as to the differences in mileages driven at different ages, or the number of drivers registered in the various age groups.

The 1936 statistics showed, however, that 1.6 per cent. of the drivers in accidents were under 18 years of age, and 2.1 per cent. were 65 years of age or over. This would appear to disprove the commonly held belief that the very young drivers and the elderly drivers are responsible for or cause most of the motor vehicle accidents in Ontario.

ACCIDENTS BY HOUR AND DAY OF OCCURENCE:—

As might be expected, the number of accidents at different hours of the day shows a tendency to follow the fluctuations in the volume of vehicles, pedestrians and other traffic and the peaks correspond fairly closely to the hours when most people are going to and from work, school, meals or evening's recreation.

As was the case in previous years, the peak hour for motor vehicle accidents during 1936 was between 5.00 and 6.00 p.m., with 8.6 per cent. of the total recorded during that hour. Thirty-seven per cent. of all accidents reported took place in the four hours, 5.00 to 9.00 p.m.

More than half (52.6%) of the mishaps occurred during the eight-hour period 4.00 p.m. to 11.59 p.m.; a third of the total happened during the eight hours 8.00 a.m. to 3.59 p.m.; and 14.1 per cent. took place during the early morning hours, between mid-night and eight o'clock.

In contrast with the advance in all accidents amounting to 6.9 per cent., mishaps during the hours between mid-night and 8.30 a.m. showed a gain of 13.8 per cent. from the corresponding total for 1935; and those reported in the remaining two eight-hour periods, 8.00 a.m. to 3.59 p.m. and 4.00 p.m. to 11.59 p.m. increased by 7.1 and 4.8 per cent.

The peak hour for fatal accidents during the year was between 7.00 and 8.00 p.m. and more than half (55.6%) of the mishaps of this nature took place within the eight-hour period, 4.00 p.m. to 11.59 p.m. There was no change in this proportion from the corresponding percentage for 1935. Fatal accidents during the two remaining eight-hour periods — 8.00 a.m. to 3.59 p.m. and 12.00 a.m. to 7.59 a.m. — accounted for 28.1 per cent. and 16.3 per cent. of the total.

As was the case in previous years, more accidents occurred on Saturdays than on any other day of the week. One-fifth (20.5%) of the accidents happened on Saturdays, 13.5 per cent. happened on Fridays and 13.3 per cent on Sundays. The total for Thursday during 1936 was higher than the totals for Friday and Sunday. The large number of accidents reported for the day before Christmas, which for several years has shown a greater number of accidents than any other single day, explains, in part, the large total shown for Thursday.

The greatest number of fatal accidents occurred on Saturdays — the total, 112, being more than 72 per cent. above the average number reported for the remaining days of the week.

GENERAL:—

Statistics covering various items of accident experience during 1936 and for the previous years for which data are available, are presented in the following tables:—

NATURE OF ACCIDENTS REPORTED

Nature of Accident:—	1931	1932	1933	1934	1935	1936	Total	Per Cent.
Fatal*	525	461	372	476	501	501	2,836	4.8
Personal injury*	6,191	6,182	5,965	6,763	7,365	7,803	40,269	68.6
Property damage only	2,525	2,528	2,297	2,406	2,782	3,084	15,622	26.6
Total	9,241	9,171	8,634	9,645	10,648	11,388	58,727	100.0

*Denotes accidents in which persons suffered fatal and non-fatal injuries, but not the number of persons killed and injured. 'Property damage only' accidents are those in which damage to vehicles or other property is in excess of $50.00.

ACCIDENTS CLASSIFIED ACCORDING TO TYPE OF COLLISION

Type of Collision:—	1931	1932	1933	1934	1935	1936	Total	Per Cent.
Collision with pedestrian	2,989	2,826	2,697	2,994	3,195	3,391	18,092	30.8
Collision with other automobile	3,829	3,555	3,243	3,767	4,115	4,452	22,961	39.1
Collision with horse drawn vehicle	238	247	193	201	213	203	1,295	2.2
Collision with R. R. train	152	118	91	101	118	134	714	1.2
Collision with street car	218	229	176	175	202	192	1192	2.0
Collision with other vehicles	10	18	9	14	11	11	73	.1
Collision with fixed object	455	596	653	706	876	938	4,224	7.2
Collision with bicycle	448	596	660	823	1,028	1,127	4,682	8.0
Collision with motor-cycle	187	190	177	159	173	174	1,060	1.8
Non-collision accident	656	703	648	615	612	674	3,908	6.7
Miscellaneous	59	93	87	90	105	92	526	.9
Total	9,241	9,171	8,634	9,645	10,648	11,388	58,727	100.0

FATAL ACCIDENTS CLASSIFIED ACCORDING TO TYPE OF COLLISION

Type of Collision:—	1931	1932	1933	1934	1935	1936	Total	Per Cent.
Collision with pedestrian	252	226	170	211	224	233	1,316	46.4
Collision with other automobile	67	60	50	76	65	82	400	14.1
Collision with horse drawn vehicle	11	7	7	6	9	7	47	1.7
Collision with R. R. train	43	35	25	26	33	27	189	6.7
Collision with street car	11	11	5	8	10	9	54	1.9
Collision with other vehicles	....	1	1	2	1	....	5	.2
Collision with fixed object	35	34	22	47	63	41	242	8.5
Collision with bicycle	18	28	25	31	35	30	167	5.9
Collision with motorcycle	10	9	5	7	7	6	44	1.5
Non-collision accident	73	44	59	61	54	60	351	12.4
Miscellaneous	5	6	3	1	....	6	21	.7
Total	525	461	372	476	501	501	2,836	100.0

URBAN* ACCIDENTS CLASSIFIED ACCORDING TO TYPE OF COLLISION

Type of Collision:—	1932	1933	1934	1935	1936	Total	Per Cent.
Collision with pedestrian	2,362	2,255	2,506	2,653	2,887	12,663	42.02
Collision with other automobile	1,910	1,743	1,863	2,104	2,295	9,915	32.90
Collision with horse drawn vehicle	102	71	75	94	91	433	1.44
Collision with R. R. train	57	46	45	57	60	265	.88
Collision with street car	206	161	165	185	184	901	2.99
Collision with other vehicles	1	2	1	2	3	9	.03
Collision with fixed object	220	232	261	330	366	1,409	4.67
Collision with bicyle	497	532	683	881	967	3,560	11.81
Collision with motorcycle	144	123	121	129	131	648	2.15
Non-collision accident	57	49	71	73	58	308	1.02
Miscellaneous	15	4	1	2	6	28	.09
Total	5,571	5,218	5,792	6,510	7,048	30,139	100.00

*Urban accidents include those which occurred on city, town and village streets.

URBAN FATAL ACCIDENTS CLASSIFIED ACCORDING TO TYPE OF COLLISION

Type of Collision:—	1932	1933	1934	1935	1936	Total	Per Cent.
Collision with pedestrian	137	95	129	116	131	608	65.8
Collision with other automobile	12	10	16	15	17	70	7.6
Collision with horse drawn vehicle	1	1	....	4	....	6	.7
Collision with R. R. train	10	11	7	12	8	48	5.2
Collision with street car	7	5	8	8	7	35	3.8
Collision with other vehicles	....	....	....	....	....	....	....
Collision with fixed object	5	8	8	14	7	42	4.5
Collision with bicycle	10	11	15	17	15	68	7.4
Collision with motorcycle	5	1	4	3	3	16	1.7
Non-collision accident	3	7	7	5	5	27	2.9
Miscellaneous	3	1	....	....	....	4	.4
Total	193	150	194	194	193	924	100.0

RURAL* ACCIDENTS CLASSIFIED ACCORDING TO TYPE OF COLLISION

Type of Collision:—	1932	1933	1934	1935	1936	Total	Per Cent.
Collision with pedestrian	464	442	488	542	504	2,440	12.6
Collision with other automobile	1,645	1,500	1,904	2,011	2,157	9,217	47.6
Collision with horse drawn vehicle	145	122	126	119	112	624	3.2
Collision with R. R. train	61	45	56	61	74	297	1.5
Collision with street car	23	15	10	17	8	73	.4
Collision with other vehicles	17	7	13	9	8	54	.3
Collision with fixed object	376	421	445	546	572	2,360	12.2
Collision with bicycle	99	128	140	147	160	674	3.5
Collision with motorcycle	46	54	38	44	43	225	1.2
Non-collision accident	646	599	544	539	616	2,944	15.2
Miscellaneous	78	83	89	103	86	439	2.3
Total	3,600	3,416	3,853	4,138	4,340	19,347	100.0

*Accidents on the King's Highways, county roads and township roads are classified as 'rural'.

RURAL FATAL ACCIDENTS CLASSIFIED ACCORDING TO TYPE OF COLLISION

Type of Collision:—	1932	1933	1934	1935	1936	Total	Per Cent.
Collision with pedestrian	89	75	82	108	102	456	32.9
Collision with other automobile	48	40	60	50	65	263	19.0
Collision with horse drawn vehicle	6	6	6	5	7	30	2.2
Collision with R. R. train	25	14	19	21	19	98	7.0
Collision with street car	4	....	....	2	2	8	.6
Collision with other vehicles	1	1	2	1	....	5	.4
Collision with fixed object	29	14	39	49	34	165	11.9
Collision with bicycle	18	14	16	18	15	81	5.8
Collision with motorcycle	4	4	3	4	3	18	1.3
Non-collision accident	41	52	54	49	55	251	18.1
Miscellaneous	3	2	1	....	6	12	.8
Total	268	222	282	307	308	1,387	100.0

ALL ACCIDENTS DETAILED ACCORDING TO LOCATION

Location:—	1932	1933	1934	1935	1936	Total	Per Cent.
Cities	5,009	4,757	5,196	5,894	6,411	27,267	55.1
Towns	453	374	496	498	498	2,319	4.7
Villages	109	87	100	118	139	553	1.1
King's Highways	2,447	2,318	2,512	2,580	2,756	12,613	25.5
County roads	748	655	906	1,068	1,066	4,443	9.0
Township roads	405	443	435	490	518	2,291	4.6
Total	9,171	8,634	9,645	10,648	11,388	49,486	100.0

FATAL ACCIDENTS DETAILED ACCORDING TO LOCATION

Location:—	1932	1933	1934	1935	1936	Total	Per Cent.
Cities	135	105	148	144	140	672	29.1
Towns	43	37	39	39	37	195	8.4
Villages	15	8	7	11	16	57	2.5
King's Highways	150	126	149	170	169	764	33.0
County Roads	86	61	91	99	90	427	18.5
Township roads	32	35	42	38	49	196	8.5
Total	461	372	476	501	501	2,311	100.0

ROAD LOCATION AT WHICH ACCIDENTS OCCURRED

Road Location:—	**1931**	**1932**	**1933**	**1934**	**1935**	**1936**	**Total**	**Per Cent.**
Street Intersection	3,085	3,017	2,856	3,133	3,638	3,593	19,322	32.90
Between street intersections	2,442	2,237	2,173	2,475	2,712	3,132	15,171	25.84
Rural intersection	358	350	369	346	385	520	2,328	3.96
Straight road	2,103	2,139	1,903	2,211	2,318	2,531	13,205	22.48
Private driveway	239	256	301	316	348	356	1,816	3.09
Curve	465	527	511	588	659	599	3,349	5.70
Hill	277	439	373	413	383	411	2,296	3.91
R.R. crossing:—								
(a) Man on duty or gates	11	7	5	9	12	6	50	.08
(b) Automatic signal	31	27	18	20	20	26	142	.24
(c) Unguarded	115	90	79	76	91	112	563	.96
Bridge	115	82	46	58	79	101	481	.82
On ferry or dock	....	....	....	....	3	1	4	.01
Total	9,241	9,171	8,634	9,645	10,648	11,388	58,727	100.00

ROAD LOCATION AT WHICH FATAL ACCIDENTS OCCURRED

Road Location:—	**1931**	**1932**	**1933**	**1934**	**1935**	**1936**	**Total**	**Per Cent.**
Street intersection	67	72	58	81	76	72	426	15.02
Between street intersections	112	96	71	105	100	106	590	20.80
Rural intersection	29	23	17	19	19	24	131	4.62
Straight road	175	159	138	158	182	185	997	35.16
Private driveway	22	18	14	14	16	17	101	3.56
Curve	41	32	25	34	42	37	211	7.44
Hill	27	23	22	32	24	28	156	5.50
R.R. crossing:—								
(a) Man on duty or gates	1	3	2	2	2	....	10	.35
(b) Automatic signal	7	11	5	1	7	5	36	1.27
(c) Unguarded	35	21	18	23	25	22	144	5.08
Bridge	9	3	2	7	7	4	32	1.13
On ferry or dock	....	....	....	....	1	1	2	.07
Total	525	461	372	476	501	501	2,836	100.00

ALL ACCIDENTS CLASSIFIED ACCORDING TO LIGHT CONDITION PREVAILING

Light Condition:—	**1931**	**1932**	**1933**	**1934**	**1935**	**1936**	**Total**	**Per Cent.**
Daylight	5,239	5,210	4,992	5,242	5,881	6,245	32,809	55.9
Dusk	799	569	489	452	454	535	3,298	5.6
Dark	3,181	3,378	3,143	3,941	4,309	4,598	22,550	38.5
Not stated	22	14	10	10	4	10	70	....
Total	9,241	9,171	8,634	9,645	10,648	11,388	58,727	100.0

FATAL ACCIDENTS CLASSIFIED ACCORDING TO LIGHT CONDITION PREVAILING

Light Condition:—	**1931**	**1932**	**1933**	**1934**	**1935**	**1936**	**Total**	**Per Cent.**
Daylight	282	235	193	247	236	229	1,422	50.1
Dusk	48	36	25	32	23	22	186	6.6
Dark	194	190	154	197	242	250	1,227	43.3
Not stated	1	....	....	....	....	....	1	....
Total	525	461	372	476	501	501	2,836	100.0

ALL ACCIDENTS CLASSIFIED BY HOUR OF OCCURRENCE

Hour of Occurrence:—	1931	1932	1933	1934	1935	1936	Total	Per Cent.
12 to 1 A.M.	301	253	253	328	377	480	1,992	3.4
1 to 2 A.M.	178	201	141	222	274	270	1,286	2.2
2 to 3 A.M.	136	177	121	150	196	199	979	1.7
3 to 4 A.M.	83	74	104	92	122	136	611	1.1
4 to 5 A.M.	67	76	71	74	93	102	483	.8
5 to 6 A.M.	54	62	61	69	65	88	399	.7
6 to 7 A.M.	90	88	85	113	103	135	614	1.0
7 to 8 A.M.	129	124	126	175	170	183	907	1.6
8 to 9 A.M.	245	280	229	260	296	294	1,604	2.7
9 to 10 A.M.	234	262	253	218	290	317	1,574	2.7
10 to 11 A.M.	379	350	345	324	391	438	2,227	3.8
11 to 12 A.M.	431	401	441	444	505	532	2,754	4.7
12 to 1 P.M.	464	455	442	459	503	549	2,872	4.9
1 to 2 P.M.	393	396	391	414	474	494	2,562	4.4
2 to 3 P.M.	452	460	412	455	474	560	2,813	4.8
3 to 4 P.M.	492	504	530	517	580	580	3,203	5.5
4 to 5 P.M.	665	670	640	635	734	776	4,120	7.1
5 to 6 P.M.	882	871	797	909	960	969	5,388	9.2
6 to 7 P.M.	729	767	680	769	806	835	4,586	7.9
7 to 8 P.M.	672	712	648	687	784	880	4,383	7.5
8 to 9 P.M.	658	627	603	727	737	762	4,114	7.1
9 to 10 P.M.	542	493	448	562	564	609	3,218	5.5
10 to 11 P.M.	481	401	388	484	498	556	2,808	4.8
11 to 12 P.M.	413	437	382	511	587	558	2,888	4.9
Not stated	71	30	43	47	65	86	342	....
Total	9,241	9,171	8,634	9,645	10,648	11,388	58,727	100.0

FATAL ACCIDENTS CLASSIFIED BY HOUR OF OCCURRENCE

Hour of Occurrence:—	1931	1932	1933	1934	1935	1936	Total	Per Cent.
12 to 1 A.M.	13	12	19	18	25	21	108	3.8
1 to 2 A.M.	10	8	7	13	20	24	82	2.9
2 to 3 A.M.	11	10	7	9	10	9	56	2.0
3 to 4 A.M.	4	3	3	7	9	6	32	1.1
4 to 5 A.M.	5	7	1	5	3	5	26	.9
5 to 6 A.M.	5	7	2	6	3	6	29	1.0
6 to 7 A.M.	8	7	5	10	4	6	40	1.4
7 to 8 A.M.	8	6	2	8	6	4	34	1.2
8 to 9 A.M.	18	22	7	12	17	10	86	3.1
9 to 10 A.M.	13	9	7	11	13	9	62	2.2
10 to 11 A.M.	18	14	21	17	17	18	105	3.7
11 to 12 A.M.	23	11	16	24	17	22	113	4.0
12 to 1 P.M.	24	22	14	18	17	18	113	4.0
1 to 2 P.M.	20	17	21	18	21	22	119	4.2
2 to 3 P.M.	19	16	19	9	16	26	105	3.7
3 to 4 P.M.	30	28	12	35	23	15	143	5.1
4 to 5 P.M.	42	21	21	32	36	31	183	6.5
5 to 6 P.M.	40	36	29	42	38	32	217	7.7
6 to 7 P.M.	39	57	36	35	41	40	248	8.8
7 to 8 P.M.	43	44	32	33	43	44	239	8.5
8 to 9 P.M.	42	42	34	38	46	36	238	8.4
9 to 10 P.M.	32	23	19	28	24	33	159	5.6
10 to 11 P.M.	30	19	18	22	21	23	133	4.8
11 to 12 P.M.	25	20	19	26	28	35	153	5.4
Not stated	3	....	1	....	3	6	13	....
Total	525	461	372	476	501	501	2,836	100.0

ALL ACCIDENTS CLASSIFIED BY DAY OF OCCURRENCE

Day of Occurrence:—	1931	1932	1933	1934	1935	1936	Total	Per Cent.
Sunday	1,247	1,185	1,214	1,333	1,353	1,519	7,851	13.4
Monday	1,193	1,171	1,202	1,354	1,425	1,473	7,818	13.3
Tuesday	1,164	1,172	1,161	1,239	1,380	1,426	7,542	12.9
Wednesday	1,220	1,223	1,089	1,241	1,348	1,482	7,603	12.9
Thursday	1,277	1,198	1,094	1,230	1,360	1,616	7,775	13.2
Friday	1,287	1,385	1,249	1,256	1,610	1,534	8,321	14.2
Saturday	1,852	1,837	1,625	1,989	2,172	2,338	11,813	20.1
Not stated	1	....	....	3	....	....	4	....
Total	9,241	9,171	8,634	9,645	10,648	11,388	58,727	100.0

FATAL ACCIDENTS CLASSIFIED BY DAY OF OCCURRENCE

Day of Occurrence:—	1931	1932	1933	1934	1945	1936	Total	Per Cent.
Sunday	70	70	58	70	85	67	420	14.8
Monday	76	62	53	63	62	66	382	13.5
Tuesday	65	53	48	63	82	59	370	13.0
Wednesday	66	59	35	64	63	73	360	12.7
Thursday	75	60	41	57	50	68	351	12.4
Friday	72	62	52	64	57	56	363	12.8
Saturday	101	95	85	95	102	112	590	20.8
Total	525	461	372	476	501	501	2,836	100.0

SEX OF DRIVERS INVOLVED IN ALL ACCIDENTS

Sex of Drivers:—	1931	1932	1933	1934	1935	1936	Total	Per Cent.
Male	12,561	12,184	11,319	12,872	14,096	15,037	78,069	93.5
Female	775	876	822	859	1,015	1,033	5,380	6.5
Total	13,336	13,060	12,141	13,731	15,111	16,070	83,449	100.0

SEX OF DRIVERS INVOLVED IN FATAL ACCIDENTS

Sex of Drivers:—	1931	1932	1933	1934	1935	1936	Total	Per Cent.
Male	588	495	394	537	555	566	3,135	94.7
Female	26	31	26	33	24	36	176	5.3
Total	614	526	420	570	579	602	3,311	100.0

DRIVERS IN ALL ACCIDENTS DETAILED BY AGE GROUP

Age of Drivers:—	1931	1932	1933	1934	1935	1936	Total	Per Cent.
Under 18 years	273	224	172	205	190	256	1,320	1.8
18 to 24 years	2,492	2,428	2,287	2,877	3,346	3,562	16,992	23.5
25 to 40 years	4,103	4,495	4,644	5,789	6,548	7,239	32,818	45.3
41 to 54 years	1,994	2,263	2,205	2,758	3,186	3,367	15,773	21.8
55 to 64 years	479	559	594	731	831	962	4,156	5.7
65 years and over	163	170	205	260	288	326	1,412	1.9
Not stated	3,832	2,921	2,034	1,111	722	358	10,978	....
Total	13,336	13,060	12,141	13,731	15,111	16,070	83,449	100.0

DRIVERS IN FATAL ACCIDENTS DETAILED BY AGE GROUP

Age of Drivers:—	1931	1932	1933	1934	1935	1936	Total	Per Cent.
Under 18 years	15	7	4	7	8	9	50	1.6
18 to 24 years	139	122	102	135	143	144	785	25.6
25 to 40 years	218	207	167	226	237	254	1,309	42.7
41 to 54 years	108	91	78	121	125	138	661	21.6
55 to 64 years	28	33	29	31	30	29	180	5.9
65 years and over	12	11	11	13	15	19	81	2.6
Not stated	94	55	29	37	21	9	245	....
Total	614	526	420	570	579	602	3,311	100.00

OPERATING EXPERIENCE OF DRIVERS IN ALL ACCIDENTS

Length of Experience:—	1931	1932	1933	1934	1935	1936	Total	Per Cent.
Less than 3 months	168	157	124	182	191	199	1,021	1.5
3 to 6 months	135	92	66	110	84	91	578	.8
6 to 12 months	65	59	47	43	97	106	417	.6
1 to 4 years	1,696	2,196	1,887	2,184	2,386	2,552	12,901	18.5
5 years and over	6,955	7,235	7,583	9,632	11,144	12,099	54,648	78.6
Not stated	4,317	3,321	2,434	1,580	1,209	1,023	13,884	....
Total	13,336	13,060	12,141	13,731	15,111	16,070	83,449	100.0

OPERATING EXPERIENCE OF DRIVERS IN FATAL ACCIDENTS

Length of Experience:—	1931	1932	1933	1934	1935	1936	Total	Per Cent.
Less than 3 months	8	5	6	12	7	7	45	1.7
3 to 6 months	3	3	....	3	4	2	15	.6
6 to 12 months	8	3	2	2	....	4	19	.8
1 to 4 years	79	100	64	77	77	86	483	18.6
5 years and over	322	284	262	351	392	420	2,031	78.3
Not stated	194	131	86	125	99	83	718	....
Total	614	526	420	570	579	602	3,311	100.0

CONDITION OF DRIVERS IN ALL ACCIDENTS

Condition:—	1931	1932	1933	1934	1935	1936	Total	Per Cent.
Intoxicated	137	151	121	155	154	177	895	1.1
Physical defect	13	21	38	38	52	66	228	.3
Extreme fatigue	49	106	98	107	156	134	650	.8
Normal	13,137	12,782	11,884	13,431	14,749	15,693	81,676	97.8
Total	13,336	13,060	12,141	13,731	15,111	16,070	83,449	100.0

CONDITION OF DRIVERS IN FATAL ACCIDENTS

Condition:—	1931	1932	1933	1934	1935	1936	Total	Per Cent.
Intoxicated	13	10	12	17	8	14	74	2.2
Physical defect	....	1	3	1	....	7	12	.4
Extreme fatigue	4	5	6	6	11	3	35	1.1
Normal	597	510	399	546	560	578	3,190	96.3
Total	614	526	420	570	579	602	3,311	100.0

TYPES OF VEHICLES INVOLVED IN ALL ACCIDENTS

Type of Vehicle:—	1931	1932	1933	1934	1935	1936	Total	Per Cent.
Passneger car	11,172	10,907	10,107	11,246	12,517	13,419	69,368	80.12
Commercial vehicle	1,946	1,991	1,971	2,332	2,524	2,672	13,436	15.52
Taxicab	244	218	176	227	175	193	1,233	1.43
Bus	101	104	75	82	80	95	537	.62
Motorcycle	282	282	262	239	279	258	1,602	1.85
Trailer	42	42	69	65	53	64	335	.39
All others	15	6	14	7	11	12	65	.07
Not stated	80	50	5	6	6	37	184	....
Total	13,882	13,600	12,679	14,204	15,645	16,750	86,760	100.00

TYPES OF VEHICLES INVOLVED IN FATAL ACCIDENTS

Type of Vehicle:—	1931	1932	1933	1934	1935	1936	Total	Per Cent.
Passenger car	479	417	342	412	464	482	2,596	75.62
Commercial vehicle	110	107	87	150	118	115	687	20.01
Taxicab	10	3	6	7	8	5	39	1.14
Bus	3	3	4	3	3	5	21	.61
Motorcycle	23	12	10	10	13	11	79	2.30
Trailer	1	2	4	1	....	....	8	.23
All others	3	....	....	....	....	....	3	.09
Not stated	9	12	2	4	1	8	36	....
Total	638	556	455	587	607	626	3,469	100.00

NUMBER OF PERSONS NON-FATALLY INJURED,

	Total 1936		All Ages 5-yr. Total		1936		0-4 yrs. 5-yr. Total		1936		5-14 yrs. 5-yr. Total	
	No.	Per cent.	No.	Per cent.	No	Per cent.	No.	Per cent.	No.	Per cent.	No.	Per cent.
Collision with:—												
Pedestrian	3307	32.3	14764	32.7	418	83.9	1877	81.37	1129	67.37	5311	70.4
Other motor vehicle	3561	34.7	15569	34.5	61	12.3	318	13.78	212	12.65	901	11.9
Horse-drawn vehicle	175	1.7	924	2.1	1	.2	9	.39	5	.30	39	.5
R. R. train	136	1.3	493	1.1	1	.2	3	.13	8	.47	29	.4
Street car	143	1.4	686	1.5	1	.2	10	.43	3	.18	26	.4
Other vehicles	10	.1	58	.1	...	...	...	...	...	...	...	...
Fixed object	865	8.4	3585	7.9	7	1.4	41	1.78	21	1.25	116	1.5
Bicycle	1124	11.0	4214	9.3	1	.2	5	.22	265	15.81	946	12.5
Motorcycle	183	1.8	922	2.0	...	...	1	.04	1	.06	11	.2
Non-collision	719	7.0	3794	8.4	6	1.2	36	1.56	30	1.79	160	2.1
Miscellaneous	28	.3	179	.4	2	.4	7	.30	2	.12	10	.1
Total	10251	100.0	45188	100.0	498	100.0	2307	100.00	1676	100.00	7549	100.0

NUMBER OF PERSONS FATALLY INJURED,

	Total 1936		All Ages 5-yr. Total		1936		0-4 yrs. 5-yr. Total		1936		5-14 yrs. 5-yr. Total.	
	No.	Per cent.	No.	Per cent.	No.	Per cent.	No.	Per cent.	No.	Per cent.	No.	Per cent.
Collision with:—												
Pedestrian	235	43.0	1071	42.4	23	88.5	121	85.8	38	77.6	217	76.4
Other motor vehicle	95	17.4	388	15.4	1	3.8	3	2.1	1	2.0	15	5.3
Horse-drawn vehicle	7	1.3	36	1.4	...	...	...	...	...	...	...	...
R. R. train	40	7.3	235	9.3	...	...	2	1.4	2	4.1	7	2.5
Street car	14	2.6	50	2.0	...	...	...	...	1	2.0	3	1.0
Other vehicles	...	...	5	.2	...	...	...	...	...	...	...	...
Fixed object	43	7.9	229	9.1	...	...	6	4.3	1	2.0	5	1.8
Bicycle	30	5.5	150	5.9	...	...	...	...	4	8.2	23	8.1
Motorcycle	8	1.5	40	1.6	...	...	...	...	...	...	...	...
Non-collision	67	12.2	302	12.0	2	7.7	8	5.7	2	4.1	14	4.9
Miscellaneous	7	1.3	17	.7	...	...	1	.7	...	...	...	...
Total	546	100.0	2523	100.0	26	100.0	141	100.0	49	100.0	284	100.0

CLASSIFIED BY TYPE OF COLLISION AND AGE GROUP

1936	15-35 yrs.	5-yr.	Total	1936	36-54 yrs.	5-yr.	Total	1936	55-64 yrs.	5-yr.	Total	1936	65 yrs. and over.	5-yr.	Total
No.	Per cent.	No.	Per cent.	No.	Per cent.	No.	Per cent.	No.	Per cent.	No.	Per cent.	No.	Per cent.	No.	Per cent.
548	13.4	2399	13.99	559	24.92	2240	23.6	234	34.6	993	35.0	274	53.2	1134	52.1
1659	40.6	7009	40.87	976	44.22	4100	43.2	255	37.7	1071	37.8	164	31.8	625	28.7
86	2.1	353	2.06	37	1.68	250	2.6	20	3.0	96	3.4	11	2.1	70	3.2
74	1.8	253	1.48	31	1.40	105	1.1	6	.9	27	.9	2	.4	13	.6
71	1.7	296	1.73	42	1.90	224	2.4	10	1.5	43	1.5	5	1.0	21	1.0
4	.1	16	.09	1	.04	19	.2	....	....	5	.2	....	......	4	.2
494	12.1	1916	11.16	218	9.88	885	9.3	55	8.1	221	7.8	23	4.5	108	5.0
603	14.8	2225	12.97	137	6.21	579	6.1	44	6.5	125	4.4	10	1.9	51	2.3
158	3.9	761	4.44	13	.59	48	.5	1	.1	6	.2	1	.2	3	.1
374	9.2	1816	10.59	195	8.84	1002	10.6	51	7.6	244	8.6	24	4.7	145	6.7
14	.3	107	.62	7	.32	39	.4	....	......	5	.2	1	.2	3	.1
4085	100.0	17151	100.00	2207	100.00	9491	100.0	676	100.0	2836	100.0	515	100.0	2177	100.0

CLASSIFIED BY TYPE OF COLLISION AND AGE GROUP

1936	15-35 yrs.	5-yr.	Total	1936	36-54 yrs.	5-yr.	Total	1936	55-64 yrs.	5-yr.	Total	1936	65 yrs. and over.	5-yr.	Total
No.	Per cent.	No.	Per cent.	No.	Per cent.	No.	Per cent.	No.	Per cent.	No.	Per cent.	No.	Per cent.	No.	Per cent.
33	19.2	134	16.6	43	32.1	186	32.2	21	41.2	124	44.4	77	67.5	289	66.7
38	22.1	161	19.9	32	23.9	111	19.2	13	25.4	50	17.9	10	8.8	48	11.1
1	.6	13	1.6	....	......	7	1.2	2	3.9	7	2.5	4	3.5	9	2.1
14	8.1	99	12.3	16	11.9	76	13.2	2	3.9	30	10.7	6	5.3	21	4.9
7	4.1	23	2.8	5	3.7	20	3.5	....	......	3	1.1	1	.9	1	.3
....	......	2	.2	....	......	2	.3	....	......	....	......	....	......	1	.3
25	14.5	116	14.4	10	7.5	60	10.4	1	2.0	19	6.8	6	5.3	23	5.3
14	8.1	70	8.7	9	6.7	37	6.4	1	2.0	13	4.7	2	1.7	6	1.4
7	4.1	37	4.6	1	.7	2	.3	....	......	1	.4	....	......	....	......
30	17.4	148	18.3	16	12.0	71	12.3	10	19.6	29	10.4	7	6.1	32	7.4
3	1.8	5	.6	2	1.5	6	1.0	1	2.0	3	1.1	1	.9	2	.5
172	100.0	808	100.0	134	100.0	578	100.0	51	100.0	279	100.0	114	100.0	433	100.0

CLASSIFICATION OF PERSONS FATALLY INJURED

	1932	1933	1934	1935	1936	Total	Per Cent.
Drivers	100	65	109	102	97	473	18.8
Passengers	125	121	140	175	156	717	28.4
Pedestrians	230	175	215	227	244	1,091	43.2
Others*	8	7	6	10	8	39	1.6
Bicyclists	27	25	31	36	30	149	5.9
Motorcycle drivers	10	6	7	9	9	41	1.6
Motorcycle passengers	2	4	4	1	2	13	.5
Total	502	403	512	560	546	2,523	100.0

CLASSIFICATION OF PERSONS NON-FATALLY INJURED

	1932	1933	1934	1935	1936	Total	Per Cent.
Drivers	1,546	1,423	1,630	1,782	1,815	8,196	18.1
Passengers	3,041	2,827	3,208	3,492	3,633	16,201	35.9
Pedestrians	2,737	2,646	2,979	3,179	3,362	14,903	33.0
Others*	113	121	151	142	123	650	1.4
Bicyclists	572	649	822	1,021	1,106	4,170	9.2
Motorcycle drivers	175	163	163	184	182	867	1.9
Motorcycle passengers	47	48	37	39	30	201	.5
Total	8,231	7,877	8,990	9,839	10,251	45,188	100.0

CLASSIFICATION OF PERSONS FATALLY INJURED IN URBAN ACCIDENTS

	1932	1933	1934	1935	1936	Total	Per Cent.
Drivers	27	18	24	22	15	106	10.9
Passengers	16	27	28	39	37	147	15.1
Pedestrians	139	100	133	117	135	624	64.2
Others*	1	1	....	4	1	7	.7
Bicyclists	10	11	15	17	15	68	7.0
Motorcycle drivers	5	1	4	4	3	17	1.7
Mororcycle passengers	1	....	1	1	1	4	.4
Total	199	158	205	204	207	973	100.0

*Passengers in horse-drawn vehicles or in other vehicles not motor vehicles or bicycles.

CLASSIFICATION OF PERSONS FATALLY INJURED IN RURAL ACCIDENTS

	1932	1933	1934	1935	1936	Total	Per Cent.
Drivers	73	47	85	80	82	367	23.7
Passengers	109	94	112	136	119	570	36.8
Pedestrians	91	75	82	110	109	467	30.1
Others*	7	6	6	6	7	32	2.1
Bicyclists	17	14	16	19	15	81	5.2
Motorcycle drivers	5	5	3	5	6	24	1.5
Motorcycle passengers	1	4	3	....	1	9	.6
Total	303	245	307	356	339	1,550	100.0

CLASSIFICATION OF PERSONS NON-FATALLY INJURED IN URBAN ACCIDENTS

	1932	1933	1934	1935	1936	Total	Per Cent.
Drivers	570	513	590	632	688	2,993	11.4
Passengers	1,088	1,028	1,224	1,270	1,413	6,023	22.9
Pedestrians	2,325	2,255	2,522	2,687	2,907	12,696	48.4
Others*	42	43	43	66	52	246	.9
Bicyclists	489	529	685	885	956	3,544	13.5
Motorcycle drivers	130	110	115	136	135	626	2.4
Motorcycle passengers	35	28	31	25	18	137	.5
Total	4,679	4,506	5,210	5,701	6,169	26,265	100.0

CLASSIFICATION OF PERSONS NON-FATALLY INJURED IN RURAL ACCIDENTS

	1932	1933	1934	1935	1936	Total	Per Cent.
Drivers	976	910	1,040	1,150	1,127	5,203	27.5
Passengers	1,953	1,799	1,984	2,222	2,220	10,178	53.8
Pedestrians	412	391	457	492	455	2,207	11.7
Others*	71	78	108	76	71	404	2.1
Bicyclists	83	120	137	136	150	626	3.3
Motorcycle drivers	45	53	48	48	47	241	1.3
Motorcycle passengers	12	20	6	14	12	64	.3
Total	3,552	3,371	3,780	4,138	4,082	18,923	100.0

REPORT

OF

THE COMMISSIONER

OF THE

ONTARIO PROVINCIAL POLICE

FROM

APRIL 1, 1936 TO MARCH 31, 1937

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL PAPER No. 34, 1938

ONTARIO

TORONTO
Printed and Published by T. E. Bowman, Printer to the King's Most Excellent Majesty
1938

To His Honour Albert Matthews, Esq.,
Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present to Your Honour the Report of The Commissioner of the Ontario Provincial Police covering the period April 1st, 1936 to March 31st, 1937.

Respectfully submitted,
G. D. CONANT,
Attorney General.

Attorney General's Department.

ONTARIO PROVINCIAL POLICE

Commissioner
MAJOR-GENERAL V. A. S. WILLIAMS, C.M.G.

Criminal Investigation Branch
J. MILLER, SENIOR INSPECTOR

Inspectors
A. B. BOYD
E. C. GURNETT, M.M.
W. H. WARD
E. D. L. HAMMOND
W. H. LOUGHEED

Sergeant
G. MACKAY

Staff Inspectors
W. C. KILLING
A. MOSS
E. T. DOYLE

Liquor Control Investigation Branch
F. E. ELLIOTT, CHIEF INSPECTOR

Motorcycle Patrol
J. A. GRANT, M.M., INSPECTOR-IN-CHARGE

District Inspectors

No. 1	District,	Windsor	District Inspector	P. WALTER
No. 2	"	London	" "	S. OLIVER
No. 3	"	Hamilton	" "	W. T. MOORE
No. 4	"	Niagara Falls	" "	C. F. AIREY, M.S.M.
No. 5	"	Toronto	" "	A. H PALMER
No. 6	"	Kitchener	" "	C. A. JORDON
No. 7	"	Barrie	" "	J. H. PUTMAN
No. 8	"	Belleville	" "	F. GARDNER, M.S.M.
No. 9	"	Perth	" "	T. W. COUSANS
No. 10	"	Haileybury	" "	F. B. CREASY
No. 11	"	Sudbury	" "	A. R. KNIGHT
No. 12	"	Port Arthur	" "	W. G. INGRAM

Area Inspectors, Motorcycle Patrol

Central Area, Toronto	Area Inspector	F. G. JEROME
Eastern Area, London	" "	S. HUNTER
Western Area, Brockville	" "	T. G. P. LUCAS

Report of the Commissioner of Police for Ontario

From April 1, 1936 to March 31, 1937

Ontario Provincial Police,
Heaquarters, Toronto.

The Honourable the Attorney General,
Parliament Buildings, Toronto, Ontario.

Sir,—I have the honour to submit herewith my Report covering the period April 1, 1936 to March 31, 1937.

Strength and Distribution of the Force on March 31st. 1937

	Commissioner's Office	Crim. Invest. Branch	L. C. I. Branch	Motorcycle Patrol	Headquarters Garage	No. 1 District	No. 2 District	No. 3 District	No. 4 District	No. 5 District	No. 6 District	No. 7 District	No. 8 District	No. 9 District	No. 10 District	No. 11 District	No. 12 District	Total Strength
Commissioner	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Senior Inspector, C.I.B.	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Staff Inspectors	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3
Accountant	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Inspectors, C.I.B.	..	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5
Chief Inspector, L.C.I.B.	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Inspector, i/c M.C.P.	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1
District Inspectors	..	..	..	..	..	1	1	1	1	1	1	1	1	1	1	1	1	12
Area Inspectors, M.C.P.	..	..	..	3	..	..	..	..	..	..	..	..	..	..	..	..	..	3
Inspector of Automobiles	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1
Sergeants	..	1	..	..	..	..	1	1	1	1	1	1	1	2	2	1	1	14
Provincial Constables	2	..	..	..	..	9	13	10	11	17	14	12	12	15	18	12	23	168
Prov. Constables, N.M.C.F.	..	..	..	..	..	..	..	..	..	.	..	2	..	..	2	1	..	5
Prov. Constables, M.C.P.	..	..	..	81	..	..	..	..	..	..	..	..	..	..	..	..	..	81
TOTALS	7	7	1	85	1	10	15	12	13	19	16	16	14	18	23	15	25	297
Chauffeurs and Mechanics	..	..	..	..	8	..	1	1	1	..	..	1	1	1	1	1	1	17
Clerks, etc.	7	2	2	3	..	1	1	1	1	1	1	1	1	1	1	1	1	26
GRAND TOTALS	14	9	3	88	9	11	17	14	15	20	17	18	16	20	25	17	27	340
Automobiles	..	..	..	..	10	1	4	2	6	2	2	3	1	4	5	2	3	45
Motorcycles	..	..	..	..	..	..	..	..	..	..	..	2	..	..	3	1	..	6

For purposes of administration the Province is divided into twelve Districts numbered consecutively one to twelve as follows:—

No. 1 District, Headquarters Windsor—
comprising the County of Essex.

No. 2 Headquarters London—
comprising the Counties of Lambton, Middlesex, Elgin, Oxford and Kent.

No. 3 District, Headquarters Hamilton—
comprising the Counties of Wentworth, Halton, Brant and Norfolk.

No. 4 District, Headquarters Niagara Falls—
comprising the Counties of Haldimand, Lincoln and Welland.

No. 5 District, Headquarters Toronto—
comprising the Counties of York, Peel and Ontario.

No. 6 District, Headquarters Kitchener—
comprising the Counties of Bruce, Perth, Grey, Huron, Wellington and Waterloo.

No. 7 District, Headquarters Barrie—
comprising the Counties of Simcoe and Dufferin, and the Districts of Muskoka and Parry Sound.

No. 8 District, Headquarters Belleville—
comprising the Counties of Victoria, Haliburton, Peterboro, Northumberland, Durham, Hastings, Lennox and Addington, Prince Edward, and Frontenac.

No. 9 District, Headquarters Perth—
comprising the Counties of Renfrew, Lanark, Carleton, Grenville, Dundas, Russell, Prescott, Stormont, Leeds, and Glengarry.

No. 10 District, Headquarters Haileybury—
comprising the Districts of Temiskaming, Cochrane, Nipissing, and a portion of Algoma.

No. 11 District, Headquarters Sudbury—
comprising the Districts of Sudbury, Manitoulin Island, and a portion of Algoma.

No. 12 District, Headquarters Port Arthur—
comprising the Districts of Patricia, Kenora, Rainy River, and Thunder Bay.

LOCATION OF OFFICERS

Location	Officers	Sergeants	Prov. Cons-tables	Prov. Cons-tables M.C.P.	Chauf-feurs and Mech-anics	Cars or Motor Cycles
Headquarters: Toronto	16	1	2	1	8	10

LOCATION OF OFFICERS—Continued

Location	Officers	Sergeants	Prov. Constables	Prov. Constables M.C.P.	Chauffeurs and Mechanics	Cars or Motor Cycles
No. 1 District:						
Windsor Hqrs.	1	....	6	1	....	1
Amherstburg	....	....	1	....	....	....
Leamington	....	....	1	1	....	....
Belle River	....	....	1	....	....	....
Sandwich	....	....	....	1	....	....
Kingsville	....	....	1	1	....	....
No. 2 District:						
London Hqrs.	2	1	2	2	1	2
Glencoe	....	....	1	....	....	....
Strathroy	....	....	1	....	....	....
Exeter	....	....	....	1	....	....
Chatham	....	....	3	1	....	1
Tilbury	....	....	1	1	....	....
Sarnia	....	....	2	1	....	1
St. Thomas	....	....	2	1	....	1
Woodstock	....	....	1	1	....	....
Ingersoll	....	....	....	1	....	....
Dresden	....	....	....	1	....	....
Lambeth	....	....	....	2	....	....
Blenheim	....	....	....	1	....	....
Shedden	....	....	....	1	....	....
Wardsville	....	....	....	1	....	....
Wallaceburg	....	....	....	1	....	....
No. 3 District:						
Hamilton Hqrs.	1	1	5	....	1	1
Brantford	....	....	1	2	....	....
Simcoe	....	....	2	1	....	1
Paris	....	....	....	1	....	....
Milton	....	....	2	....	....	....
Waterdown	....	....	....	1	....	....
Dundas	....	....	....	1	....	....
Oakville	....	....	....	1	....	....
Burlington	....	....	....	1	....	....
No. 4 District:						
Niagara Falls Hqrs.	1	1	3	1	1	2
Ridgeway	....	....	1	1	....	1
Fort Erie	....	....	1	....	....	....
Welland	....	....	2	....	....	1
Dunnville	....	....	1	1	....	1
St. Catharines	....	....	2	....	....	1
Grimsby	....	....	1	....	....	....
Beamsville	....	....	....	1	....	....
Caledonia	....	....	....	2	....	....
Smithville	....	....	....	1	....	....
Stoney Creek	....	....	....	1	....	....
Fonthill	....	....	....	1	....	....
No. 5 District:						
Toronto Hqrs.	2	1	14	....	....	....
Brampton	....	....	1	1	....	1
Cooksville	....	....	....	1	....	....
Oshawa	....	....	1	....	....	1
Beaverton	....	....	1	....	....	....
Pickering	....	....	....	1	....	....
Mimico	....	....	....	2	....	....

LOCATION OF OFFICERS—Continued

Location	Officers	Sergeants	Prov. Cons-tables	Prov. Cons-tables M.C.P.	Chauf-feurs and Mech-anics	Cars or Motor Cycles
Highland Creek				1		
Aurora				1		
Whitby				1		
Richmond Hill				1		
Islington				2		
Port Credit				1		
Birch Cliff				1		
No. 6 District:						
Kitchener Hqrs.	1	1	5	1		1
Walkerton			1			
Wiarton			1			
Goderich			1			
Stratford			1	1		
Palmerston			1			
Guelph			1			
Puslinch				1		
Rockwood				1		
Flesherton			1			
Shelburne				1		
Owen Sound			1			1
Mitchell				1		
Arthur				1		
St. George				1		
No. 7 District:						
Barrie Hqrs.	1	1	3	1	1	1
Alliston			1			
Wasaga Beach			1			
Midland			1			
Orillia			1	1		
Collingwood			1			1
Orangeville			1			
Bracebridge			1			
Huntsville (N.M.C.P.)			1			1
Gravenhurst (N.M.C.P.)			1			1
Parry Sound			2			
Burks Falls			1			1
Bradford				1		
No. 8 District:						
Belleville Hqrs.	1	1	2	1	1	1
Madoc			1			
Lindsay			1	1		
Minden			1			
Peterborough			1	1		
Cobourg			1			
Bowmanville			1	1		
Campbellford			1			
Napanee			1	1		
Colborne				1		
Kingston			1	1		
Sharbot Lake			1			
Port Hope				1		
Trenton				1		
No. 9 District:						
Perth Hqrs.	1	1	2		1	1
Cumberland				1		

LOCATION OF OFFICERS—Continued

Location	Officers	Sergeants	Prov. Constables	Prov. Constables M.C.P.	Chauffeurs and Mechanics	Cars or Motor Cycles
Rockland			1			
Cornwall		1	2	1		1
Morrisburg			1	1		
Renfrew			1			
Pembroke			1			
Smith's Falls				1		
Ottawa			1	1		
Brockville	1		1	1		2
Prescott			1	1		
Hawkesbury			1	1		
L'Original			1			
Alexandria			1			
Arnprior				1		
Kemptville				1		
Gananoque			1			
No. 10 District:						
Haileybury Hqrs.	1	1	2		1	1
Haileybury (N.M.C.P.)			1			1
Cobalt			1			
Iroquois Falls			1			
Matheson			1			
Elk Lake			1			
Timmins			2			1
Kirkland Lake			2			1
Larder Lake			1			
Kapuskasing			1			
Englehart			1			
North Bay			2			1
North Bay (N.M.C.P.)			1			1
Callander			1			
Sturgeon Falls			1			
Mattawa			1			
Temagami			1			
Cochrane		1	2			1
Hearst			1			
No. 11 District:						
Sudbury Hqrs.	1	1	2		1	1
Sudbury (N.M.C.P.)			1			1
Warren			1			
Foleyet			1			
Capreol			1			
Little Current			1			1
Sault Ste. Marie			2			1
Blind River			1			
Chapleau			1			
Bruce Mines			1			
Gold Park			1			
Gogama			1			
Espanola			1			
No. 12 District:						
Port Arthur Hqrs.	1	1	3		1	2
Fort William			2			
Nipigon			1			
Hudson			1			
Nakina			1			

LOCATION OF OFFICERS—Continued

Location	Officers	Sergeants	Prov. Constables	Prov. Constables M.C.P.	Chauffeurs and Mechanics	Cars or Motor Cycles
Kenora	....	....	2	....	....	1
Sioux Lookout	....	....	2	....	....	....
Dryden	....	....	1	....	....	....
Minaki	....	....	1	....	....	....
Fort Frances	....	....	2	....	....	....
Rainy River	....	....	1	....	....	....
Red Lake	....	....	2	....	....	....
Pickle Lake	....	....	1	....	....	....
Geraldton	....	....	2	....	....	....
Beardmore	....	....	1	....	....	....

CHANGE IN PERSONNEL

The following appointments and retirements from the Force became effective during the period April 1st, 1936 to March 31st, 1937:—

APPOINTMENTS

Provincial Constables	5

Three of the above appointments were promotions, as follows:
H. Black, from Chauffeur to Provincial Constable
L. E. Nix, from Chauffeur to Provincial Constable
H. D. Sarvis, from Chauffeur to Provincial Constable

DISMISSALS

Provincial Constables	2

RESIGNATIONS

Provincial Constables	7
Provincial Constables, Motorcycle Patrol	2
Total	9

PERMITTED TO RESIGN

Provincial Constables	1

SUPERANNUATED

District Inspector	1

DEATHS

Provincial Constables	1
Provincial Constable, Motorcycle Patrol	1
Total	2
Total Retirements	15

The strength of the Force as of March 31st, 1937, stood at 340 all ranks.

TRANSFERS, ETC.

Continuing the policy of the Force of not permitting Constables to remain too long in one place, a number of transfers have been made from one part of the Province to another. Changes have also become necessary to fill vacancies caused by deaths, resignations, etc.

In the interest of economy these transfers have been as few as possible.

CONDUCT AND DISCIPLINE

The conduct and discipline of all ranks has been excellent and a high standard has been maintained. The members of the Force have continued to show a commendable spirit of loyalty and efficiency, and the Inspectors in charge express appreciation of the manner in which the men under them have performed their duties.

Letters of commendation have been received from Judges, Magistrates, Police Departments, Crown Attorneys and citizens of this Province and the United States, speaking in the highest terms of the services rendered by all members of the Force and the competent manner in which their duties have been performed.

THE HEALTH OF THE FORCE

The general health of the Force has been good. A small percentage has been off duty for varying periods from colds, influenza, etc., contracted by exposure to the severe weather. There has also been a number off duty suffering from injuries received whilst in the execution of their duties.

DEATHS

Provincial Constable O. E. Storey, Motorcycle Patrol

I regret to report the death of Provincial Constable Orval E. Storey of the Motorcycle Patrol, stationed at Owen Sound, who died from injuries received when his motorcycle was struck by an automobile on No. 10 Highway near Owen Sound on the night of July 25th, 1936.

The driver of the automobile concerned in the collision was charged with Manslaughter, tried and acquitted.

This most regrettable death again illustrates the very hazardous duties carried out by the members of the Motorcycle Patrol in patrolling Highways. Provincial Constable Storey was a most efficient Constable, with an excellent record. His death was a distinct loss to the Force.

Provincial Constable T. P. K. Robinson

I greatly regret to report the death of Provincial Constable T. P. K. Robinson, who died at Belleville December 20th 1936, from gunshot wounds.

Provincial Constable Robinson had been a member of the Force since October, 1922, and was an exceedingly capable Constable.

TOURS OF INSPECTION

I personally visited all District Headquarters, with the exception of No. 12 District, Port Arthur, during the year.

At each District Headquarters I made an inspection of uniform, equipment and office furnishings and addressed all ranks collectively on duties and discipline. I also interviewed a number of the men individually on their own particular problems.

I found conditions generally satisfactory and the work in the various Districts being performed in an efficient manner.

I also visited many of the local Chief Constables, Crown Attorneys and Magistrates, where I found a general feeling of confidence in the work of the Force and co-operation with other Forces existing.

Staff Inspectors from my office have also periodically visited District Headquarters and Detachments throughout the Province, advising and encouraging all ranks regarding matters affecting law enforcement in an endeavour to promote greater efficiency within the Force.

GENERAL REMARKS

The total number of cases prosecuted by members of the Force under all Acts and Statutes during the year was 24,278, an increase of 1,194 over 1935-36.

There has been a slight increase in some of the more serious crimes, such as robbery with violence, breaking and entering, theft, rape, incest, indecent assault, etc.

Prosecutions under the Criminal Code and all Statutes (exclusive of the Highway Traffic Act and the Liquor Control Act) numbered 6,626, an increase of 492 over 1935-36.

Prosecutions under the Liquor Control Act numbered 2,276, an increase of 232 over 1935-36.

Prosecutions under the Highway Traffic Act numbered 15,376, an increase of 470 over 1935-36.

A classified return of all prosecutions, convictions, dismissals, etc., will be found on pages 24 to 29.

In prosecutions instituted by members of this Force, assistance has been given by Crown Attorneys and Magistrates and the general good co-operation between the members of the Force and the law officers they come in contact with has been well maintained.

The number of investigations made by members of the Force in matters of every conceivable description was 32,470.

These cover a wide range. In addition to complaints of infractions of the Criminal Code, Liquor Control Act and other Statutes, they include requests to locate missing persons for private individuals and other Police Forces, foreign Consuls and Municipal authorities in Great Britain and Ireland, many European countries and the United States.

The members of the Force have efficiently dealt with all matters brought to their notice in their respective districts, and it is gratifying to report that with very few exceptions the numerous problems in connection with law enforcement have been satisfactorily dealt with.

The value of the work done by the members of the Force on detachment cannot be measured by the statistical records. Especially is this so in Northern Ontario, where Provincial Constables are called upon for every imaginable purpose, and where they are expected to be the guide, counsellor and friend of everyone.

The work of the Inspectors in charge of the various districts and their staffs, also of investigation branches, has been most creditably carried out and will be found in greater detail in the reports submitted to my office by the officers in charge.

COUNTY CONSTABULARIES

Members of this Force are now performing the duties of Acting High Constables in each of the following Counties:

Essex
Brant
Oxford
Norfolk
Elgin
Kent
Lambton
Hastings
Glengarry
Halton
Lincoln
Welland
Haldimand
Ontario
Peel
Stormont
Dundas
Huron
Waterloo
Bruce
Grey
Wellington
Perth
Simcoe
Renfrew
Leeds
Dufferin
Wentworth
Prince Edward
Victoria and Haliburton
Peterborough
Northumberland and Durham
Lennox and Addington
Frontenac
Grenville
Prescott and Russell
Middlesex

In the Counties of York, Lanark and Carleton, salaried High Constables are still employed by the County authorities.

PROVINCIAL AND MUNICIPAL POLICE TRAINING SCHOOL

Periodical courses of training are held at the above school. The third session of four weeks commencing on November 2nd and closing on November 28th, 1936, inclusive.

Forty-seven Constables attended this course, thirty-one from the City of Toronto, one each from Hamilton, Simcoe and New Toronto, and thirteen from this Force.

The course of instruction included lectures by specialists and Senior Officers of the City of Toronto and Ontario Provincial Police Forces.

At the conclusion of the instruction, oral and written examinations were held, the final results showing members of this Force being in first and second place and eight in the first fourteen.

There can be no question regarding the benefits derived from this type of training. Any policeman attending the School obtains knowledge of police work that must add to the efficiency of the Force to which he belongs.

INDUSTRIAL UNREST—STRIKES, ETC.

Courtlands (Canada) Limited—Cornwall.

On August 11th, 1936, what proved to be the most serious industrial disturbance of the year took place when a strike affecting between 1,700 and 1,800 employees of the Courtlands (Canada) Limited, Silk Mills, Cornwall, was called.

This strike early assumed such serious proportions that representations were made by the Mayor of Cornwall to the Attorney General for assistance.

The following number of all ranks of this Force were detailed for special duty at the height of the trouble: One Staff Inspector, one District Inspector, one Area Inspector, Motorcycle Patrol, two Sergeants, fifty Provincial Constables and nine Provincial Constables, Motorcycle Patrol.

A number of arrests were made on charges of Assault, Obstructing Police, and Intimidation. Generally speaking, however, there was very little serious disorder and this strike was amicably settled on September 4th, 1936.

Dominion Glass Company—Wallaceburg.

In August, 1936, a strike was called at the Dominion Glass Company, affecting approximately forty-five employees. There was some disorder and minor assaults.

Two Provincial Constables were detailed for duty to assist the local police from November 28th to December 17th, 1936.

Assembly of Unemployed Bush Workers—Fort Frances.

In October 1936 a situation developed in the Flanders area, Fort Frances district, causing considerable uneasiness.

Between 500 and 600 unemployed men, mostly from Eastern and Western points, concentrated at Flanders and Fort Frances hoping to obtain employment in the bush camps.

Unfortunately the local supply of labor was more than sufficient to supply the demands. A radical demonstration was put on by the crowd, who marched to the Town Hall demanding food and accommodation.

The Council provided food, etc., until such time as transportation was provided or other arrangements made to take care of the situation.

At the request of the Mayor of Fort Frances, a Sergeant and five Provincial Constables were sent in to assist the local authorities in maintaining law and order.

Shevlin Clark Lumber Company—Flanders.

On January 7th, 1937, a strike was called in the Shevlin Clark lumber camp in the Flanders area, affecting approximately 1,400 men.

A Sergeant and five Provincial Constables were sent from Port Arthur at the request of the manager of Shevlin Clark Company.

Whilst this strike was in progress an epidemic of measles broke out in two of the camps and Provincial Constables had to be used to enforce quarantine regulations.

Further trouble broke out in these camps in March, again requiring Provincial Constables being detailed for duty in the Flanders area.

Sit-Down Strike, Holmes Foundry—Point Edward.

On March 1st, 1937, a sit-down strike was called by the Amalgamated Association of Iron, Steel and Tin Workers Union at Holmes Foundry, Point Edward.

About seventy workers out of two hundred employed responded to the call, preventing those who wanted to work from doing so.

The management ordered the plant cleared but the seventy strikers refused to evacuate.

Charges were laid against the strikers under the Petty Trespass Act and summonses served.

The strikers ignored the summonses, refused to appear in Court on the date set and barricaded all means of ingress to the foundry.

Bench warrants were executed for all who neglected to answer the summonses.

On the morning of March 3rd the Chief Constable of Point Edward and a number of non-strikers acting as deputies succeeded in obtaining entrance, evicting the trespassers and regaining possession of the foundry.

As they were evicted, these strikers were arrested on Bench warrants.

In the melee that took place a number of strikers and non-strikers were injured, some rather seriously, but fortunately there were no fatalities.

All persons arrested appeared before the Magistrate on March 6th and the charges disposed of as follows: one convicted and fined, fifty-six convicted and given suspended sentence and ten charges withdrawn.

As a result of the clash between the strikers and non-strikers, a strong feeling of resentment was apparent, causing the Crown Attorney and Mayor of Point Edward to ask for the assistance of this Force.

One Staff Inspector, one Sergeant and sixteen Provincial Constables were sent to Point Edward until the excitement subsided.

Consolidated Tobacco Company—Kingsville.

A sit-down strike was called at the Consolidated Tobacco Company's plant at Kingsville, Ontario, on March 18th, 1937. An urgent call was sent requesting the assistance of this Force.

Arrangements were made to send in a sufficient number of all ranks to handle the situation, but the moderate element of the strikers prevailed and the sit-down was abandoned.

There was no disorder, damage to property or personal injury during the strike. The Company refused to reinstate the leaders when the strike ended.

NORTHERN ONTARIO

District Inspectors in charge of Northern Ontario districts report conditions respecting law enforcement in their territory as satisfactory.

There was very little industrial disorder or need for additional police services in lumber camps and none in mining areas.

A noted improvement in employment in the mining and lumbering industries was evident.

Some cases of distress amongst settlers have been reported to and investigated by members of the Force, particulars in each case when obtained being given to the relief administrator for attention.

Matachewan and Gowganda, District of Temiskaming.

A difficult situation still exists in this area owing to there being no adequate place of detention for prisoners.

At present the Constable at Elk Lake detachment covers this whole area and prisoners arrested by him have to be taken to Haileybury, the nearest place of detention.

Owing to difficulties of transportation in the winter season, this Constable is absent from his detachment practically three days each time he has to come out to Haileybury with prisoners or to attend Police Court.

To remedy this difficulty I again recommend that a proper lock-up and court room accommodation be provided at Elk Lake to take care of this area. Unless attention is given to this request it will be necessary to make Elk Lake a two man detachment.

Michipicoten Area, Algoma.

Owing to increased activities due to new mining developments in the Michipicoten area, application has been made to open a new post at Goudreau. This matter will have to be given consideration in the near future.

Geraldton and Jellicoe, Thunder Bay District.

The members of the Force at the Geraldton detachment are working under considerable difficulty owing to the fact that there is no lockup or office facilities available. When it is necessary to detain prisoners arrested in this area, they have to be taken to Port Arthur, a distance of one hundred and eighty miles.

It is most difficult to provide satisfactory police service when lockup facilities are not available.

The Department of Works advise me that plans for a lockup and office building have been completed, but the building has not yet been commenced.

Temagami Detachment.

Until recently this post was a summer detachment. It is now a full time detachment.

At present three mining properties and two large saw mills are operating in close proximity to Temagami.

There are also two licensed hotels and when the miners and lumberjacks come in with their pay, a certain amount of disorder takes place.

When an arrest is made there is no place of detention nearer than North Bay, a distance of sixty-five miles.

There is great need for lockup facilities to be provided at this point.

OFFENSIVE WEAPON PERMITS

The checking of applications, issuing of permits and correspondence in connection with offensive weapon permits occupies the full time of a Staff Inspector. In the period under review 2,096 of all classes of such permits were issued and many old ones renewed for the current year. In addition, 4,493 letters were written at Headquarters in connection with this subject.

On January 1, 1935, the provisions of Section 121A of the Criminal Code of Canada became effective. This section of the Code requires all pistols and revolvers in the possession of any person in Canada to be registered with the persons authorized by the Attorney General of any Province.

In Ontario, the Honourable the Attorney General authorized the registration to be performed by the following—

(1) By the Chief of Police or head of the Police Force in every City, Town and Village.

(2) By the High County Constables in the Counties of York, Carleton and Lanark.

(3) By the District Inspectors of the Ontario Provincial Police for all townships and unorganized municipalities and territory which lies within their respective districts.

The system adopted in registering this type of small-arm is a triplicate certificate (card) system. The original is handed to the person registering the weapon, the duplicate is retained by the police officer accepting registration and the triplicate is forwarded to the headquarters of the Royal Canadian Mounted Police, Ottawa, where a Central Recording Bureau for the whole Dominion is maintained.

The registration of revolvers and pistols has already proved advantageous in checking the illegal sale of this type of weapon and, as time goes on, its usefulness will increase. My Officers have been able to be of some assistance to other police forces and to the courts in this connection and have accumulated at this headquarters records of many thousands of revolvers and pistols.

COMPLAINTS REGARDING SUMMER COTTAGES

A large number of complaints regarding thefts from unoccupied summer cottages were received during the year.

The majority of the many thousands of summer cottages in this Province are left unoccupied and unprotected during the greater part of the year and being situated off the beaten track are in many instances, during the winter months, practically isolated and inaccessible.

Periodic patrols have been instituted in some areas, but owing to the limited number of men available this has not been possible to any extent.

Every complaint regarding depredations has been investigated and the greater number satisfactorily cleared up.

THEFT OF POULTRY

Poultry stealing has been quite prevalent in many parts of the Province.

The District Inspectors have endeavoured to check the epidemic, with some measure of success.

Night patrols have been put on in conjunction with County Police, with satisfactory results, but in many Counties the officials leave the whole responsibility to the Provincial Police.

Since the Department of Agriculture were successful in having an amendment made to the Branding of Live Stock Act, a system of tattooing poultry has been put into effect whereby the members of this Force doing duty in the Counties are supplied by the Department of Agriculture with particulars of the "Certificate of Allotment and Recorded Entry of Poultry Brand," (tattoos that are given to farmers or poultry owner when they apply for registration of a Poultry Brand).

The system of tattooing now in effect has already proved its usefulness. When recent prosecutions for poultry stealing have been before the Courts, the owners of the poultry have been able to identify same by means of the tattoo mark and the registration certificate.

GAME AND FISHERIES ACT

The members of this Force have co-operated with the officials of the Game and Fisheries Department in enforcing the provisions of the above Act.

Numerous complaints concerning violations of the Act and Regulations have been investigated. Patrols have been instituted and whenever necessary, advice and warnings given. During the hunting season special attention was paid to hunters with the assistance of members of the Motorcycle Patrol, licenses were checked, cars scrutinized, etc., to make sure that the provisions of the Act were being obeyed.

Firearms and other articles (other than game) when confiscated, were forwarded to the Game and Fisheries Department, Toronto.

Small quantities of fish, pheasants and venison, unlawfully found in possession, were confiscated and by authority of Game and Fisheries officials given to charitable institutions or to needy families.

Hearty co-operation was received from sportsmen's clubs and citizens interested in the conservation and preservation of game and fish.

The Deputy Minister, Game and Fisheries Department, expressed satisfaction with respect to the work the members of this Force are doing in assisting to enforce this Act.

The number of cases prosecuted for violations of the Act will be found in the classification of offences.

STALLION ENROLMENT ACT

Continuing arrangements made with the Department of Agriculture, the members of this Force are giving assistance in enforcing the provisions of the Stallion Enrolment Act.

Complaints received by the Secretary of the Board are forwarded through my office to the District Inspector concerned for investigation and in practically every case satisfactory results were achieved.

Prosecutions were instituted in cases where warnings had been disregarded.

The Department of Agriculture reports a noticeable improvement since the present arrangements have been in effect and express their appreciation for the valuable assistance rendered.

MURDERS

The following cases of death from violence in which murder was charged were reported to and investigated by members of this Force during the year:—

Harold Dunn, Simcoe.

On April 21st, 1936, Harold Dunn, of Simcoe, died as a result of being stabbed by Lafayette Hannigan after a drunken carousal.

Hannigan was arrested and charged with murder, convicted on a charge of manslaughter and sentenced to two years in the Ontario Reformatory.

Percy Dinning, Township of Bowman.

On May 17th, 1936, Percy Dinning of the Township of Bowman, was shot and killed by Ulysses Beatley, farmer, as a result of ill feeling over a line fence. Beatley was arrested, charged with murder and found not guilty at his trial.

Charles Nomasse, Nipissing Indian Reserve.

On May 18th, 1936, Charles Nomasse of the Nipissing Indian Reserve, was shot and killed by Joseph Lariviere, also of the Nipissing Indian Reserve, as a result of jealousy caused by attention paid by Nomasse to Lariviere's wife.

Lariviere was arrested, charged with murder, convicted of manslaughter and sentenced to seven years in Kingston Penitentiary.

Peter Sandstrom, Beardmore.

On June 28th, 1936, Peter Sandstrom of Beardmore, died as a result of injuries received in a fight with George Sheare, Beardmore.

Sheare was arrested and charged with murder. At his trial the Grand Jury found "No Bill" and he was discharged.

Marshall Johnson, Burwash.

On July 10th, 1936, Marshall Johnson and John Gray, whilst undergoing sentence at the Burwash Industrial Farm, escaped.

On July 14th the dead body of Marshall Johnson was found in Rock Lake. Examination showed that death resulted from a fractured skull and other injuries. John Gray was suspected of causing the death of Marshall Johnson and a warrant was issued for his arrest. His description, together with other particulars, was sent all over the continent. So far he has not been arrested.

There are good grounds for suspicion that Gray lost his life in the extensive bush fires that were burning at the time of his escape.

Frank LeSage, Sapawa Lake.

On July 19th, 1936, Frank LeSage of Sapawa Lake was shot and killed by his step-son, Glen LeSage, at their home at Sapawa Lake.

Glen LeSage called the police and gave himself up. He was charged with murder and found not guilty at his trial.

Walter Ritter, Wellesley Township.

On September 24th, 1936, Walter Ritter, farmer of Wellesley Township, Waterloo County, died in St. Mary's Hospital, Kitchener, from poisoning.

Mrs. Beatrice Farrington, housekeeper, was arrested and charged with murder. The Jury returned a "True Bill," but it was found that Mrs. Farrington was mentally unfit to stand trial and was committed to a Mental Hospital.

Leo Paul Roderique, Mattice.

On November 10th, 1936, Leo Paul Roderique of Mattice, died as a result of injuries inflicted by Joseph Lanteigne, who was a bully of the lumber camp and known as the "Lion of the North."

Lanteigne was arrested, charged with murder, pleaded guilty to manslaughter and was sentenced to life imprisonment.

Viola Pentland, Kiowana Beach.

On November 24th, 1936, Viola Pentland, of Kiowana Beach, Ontario, was shot and killed by her brother, Irwin H. Pentland, farmer, at their home in St. Vincent Township.

Irwin Pentland was arrested and charged with murder. He was found mentally unfit to stand his trial and committed to a Mental Hospital.

Gregory Tracey, Eganville.

On January 22nd, 1937, Gregory Tracey of Eganville, was shot and killed by his brother-in-law, John Mellar, Eganville, over fancied domestic grievances.

John Mellar was arrested, charged with murder, convicted of manslaughter and sentenced to life imprisonment.

William Saylors, Chapleau Indian Reserve.

On January 28th, 1937, William Saylors, Indian, of the Indian Reserve, Chapleau, was shot and killed by his sister-in-law, Agnes Saylors, as he was attempting to get through a window of her home to attack her.

Agnes Saylors was arrested, charged with murder and acquitted at her trial.

John Luckins, age 7, Sarnia Township.

On March 13th, 1937, John Luckins, age seven, son of a Sarnia Township farmer, died in Sarnia General Hospital from serious head injuries.

William Labadie, farm-hand employed on the Luckins' farm, was arrested, charged with murder, convicted and sentenced to death.

Victoria Raisor and John Baliz Jenchuk, Blake Township, Thunder Bay District.

On March 2nd, 1937, Victoria Raisor of Blake Township, was stabbed to death by John Jenchuk, who afterward stabbed himself in the stomach, dying from the wounds inflicted.

Lawrence Hewitt, Kitchener.

In the early morning of March 14th, 1937, the dead body of Lawrence Hewitt, taxi owner of Kitchener, was found on the side of the road at Centreville. He had been shot through the breast.

The Coroner's jury returned a verdict of murder by some person or persons unknown. So far no arrests have been made.

Enquiry proceeding.

LIQUOR CONTROL ACT

There were 2,276 prosecutions under the provisions of the Liquor Control Act for the period April 1, 1936, to March 31, 1937, an increase of 232 over the same period for the year 1935-36..

The following table gives the prosecutions, convictions, dismissals, etc., also the fines imposed for violation of various sections of the Act during the period as above:

	Prosecutions	Convictions	Dismissals	Withdrawn	Committed	Awaiting Disposal	Fines Collected
Drinking in Public Place	507	490	9	8	40	....	$ 5,729.00
Drunk in Public Place ..	620	584	26	10	155	....	4,463.00
Having or Consuming in Hotel	9	8	1	....	2	....	600.00
Having Without Permit.	173	142	21	10	42	....	10,320.00
Illegal Use of Permit ...	1	1	....	....	....	....	20.00
Infractions Liquor Control Board Regulations	278	250	10	18	32	....	5,806.00
In Possession of Liquor Without Board's Seal..	39	38	....	1	3	....	310.00
Keeping in Unlawful Place	249	196	29	24	50	....	14,555.00
Miscellaneous Offences ..	47	40	4	3	7	....	1,265.00
Permitting Drunkenness in Private Residence ..	33	28	3	2	4	....	430.00
Sale or Keeping for Sale.	189	113	45	31	109	....	....
Supplying Liquor to Minors	48	33	11	4	17	....	225.00
Unlawful Possession	13	12	1	....	1	....	255.00
Unlawful Purchase	70	60	10	....	29	....	3,450.00
TOTAL	2,276	1,995	170	111	491	....	$47,428.00

The following amount of spirits, wine, beer and alcohol were seized and confiscated and turned over to the Liquor Control Board:—

Spirits	1,557 gallons
Wine	539 gallons
Beer	5,496 gallons
Alcohol	1,125 gallons

During the year fifteen automobiles, used for unlawful transportation of liquor, were seized, confiscated by the courts, and sold by auction. They are described as follows:--

Ford Coupe
Dodge Coupe
Chevrolet Coupe
Dodge Sedan
Oldsmobile Cabriolet
Ford Sedan
Ford Coach
LaSalle Coupe
Pontiac Coupe
Ford Coach
Ford Sedan
Ford Coupe
Dodge Truck
DeSoto Sedan
Federal Tractor and Dominion Semi-Trailer Van

There were 380 liquor permits seized and sent forward with a recommendation that they be cancelled. In each case where it was considered that the report of the officer justified the concellation of the permit in question, the permit was forwarded to the Liquor Control Board recommending such cancellation.

There were 310 samples of liquor forwarded to this office for analysis from various Police Departments throughout the Province, an increase over the last twelve month period reported.

The Motorcycle Patrol has accomplished much good work in connection with the enforcement of the Liquor Control Act. During the period April 1, 1936, to March 31, 1937, they were responsible for 222 prosecutions, the seizure and confiscation of 1,125 gallons of alcohol and a quantity of liquor and assorted wines, with fines and costs imposed amounting to $2,796.05.

REPORT OF MOTORCYCLE PATROL

Prosecutions by the members of the Motorcycle Patrol for offences against the Highway Traffic Act and other Statutes numbered 14,175, of which 12,994 were convictions, 787 dismissals and 394 withdrawals.

Special attention was paid to warning operators of motor vehicles before prosecutions were instituted. Under the general sections of the Act 31,341 warnings were given and under the sections dealing with defective lights, etc., 25,982 warnings were recorded.

The Voluntary Security Plan again proved to be of great convenience and I am pleased to report that no serious complaints as to its use have been received, while its efficiency has been demonstrated. Under this Plan 760 cases were dealt with and the amount of bail accepted was $8,445.05.

Appended hereunder is a return giving the particulars as to prosecutions, penalties, etc.:—

Mileage of King's Highways Patrolled

Mileage Patrolled as of March 31st, 1937	3,745
Number of Details Covered	106
Approximate mileage assigned to each detail	34.9
Longest Detail	76
Shortest Detail	9
Vacant Details	24

PROSECUTIONS

Under H.T.A.	—13,290	Fines	$89,744.50
" L.C.A.	— 222	"	1,943.50
" C.C.	— 370	"	2,786.05
Misc. Acts	— 293	"	3,577.75
Total Pros.	—14,175	Total	$98,051.80

Licenses Suspended—569

Warnings given and recorded—57,323

One hundred and sixty-one stolen cars were recovered and returned to owners.

ACCIDENTS

Non fatal on King's Highways	2,634
Fatal on King's Highways	195
Non fatal at Railway Crossings	17
Fatal at Railway Crossings	5
Number of persons killed	220

MILES TRAVELLED ON DUTY

Miles travelled by Motorcycle Patrol	1,790,115
Miles travelled by car	1,599
Total	1,791,714

VOLUNTARY SECURITY PLAN

Number of cases in which form was used	760
Amount accepted under plan	$8,445.05

ESCORTS

Miles travelled on Escort Duty	19,010
Number of hours on Escort Duty	1,998
Number of hours on Special Duty	4,862

WARNINGS GIVEN AND RECORDED

Under Section 9 and its subsections	25,982
For other minor violations	31,341
Total	57,323

STATISTICAL RETURNS

Returns of prosecutions, convictions, dismissals, withdrawals, etc., by Districts for offence under the Liquor Control Act, covering the period April 1st, 1936, to March 31st, 1937:—

	Prosecutions	Convictions	Dismissed	Withdrawn
No. 1 District Headquarters Windsor	50	38	3	9
No. 2 " " London	290	270	15	5
No. 3 " " Hamilton	145	112	19	14
No. 4 " " Niagara Falls	80	62	14	4
No. 5 " " Toronto	180	143	15	22
No. 6 " " Kitchener	138	124	9	5
No. 7 " " Barrie	146	128	13	5
No. 8 " " Belleville	201	180	14	7
No. 9 " " Perth	292	265	21	6
No. 10 " " Haileybury	227	200	15	12
No. 11 " " Sudbury	148	131	8	9
No. 12 " " Port Arthur	379	342	24	13
TOTAL	2,276	1,995	170	111

Total fines imposed in connection with above prosecutions amounted to $63,257.00.

Returns of prosecutions, convictions, dismissals, etc., (exclusive of offences against the Liquor Control Act) by Districts, covering the period April 1st, 1936, to March 31st, 1937:—

	Prosecutions	Convictions	Dismissed	Withdrawn
No. 1 District Headquarters Windsor	275	181	34	60
No. 2 " " London	824	701	90	33
No. 3 " " Hamilton	441	360	66	15
No. 4 " " Niagara Falls.	364	258	77	29
No. 5 " " Toronto	154	109	23	22
No. 6 " " Kitchener	735	635	70	30
No. 7 " " Barrie	552	439	62	51
No. 8 " " Belleville	644	513	104	27
No. 9 " " Perth	1,111	955	97	59
No. 10 " " Haileybury ..	809	614	131	64
No. 11 " " Sudbury	607	512	75	20
No. 12 " " Port Arthur ..	864	718	86	60
TOTAL	7,380	5,995	915	470
Motorcycle Patrol Returns	13,660	12,561	741	358
County Returns	962	787	93	82
GRAND TOTAL	22,002	19,343	1,749	910

Total fines imposed in connection with above prosecutions amounted to $132,270.70.

Classified return of prosecutions, convictions, dismissals, etc., for all offences covering the period April 1st, 1936, to March 31st, 1937:—

Offence	Convictions	Dismissals	Withdrawals	Total 1936-37	Total 1935-36
Abandoning Children	1	....	....	1	....
Abduction	2	6	5	13	4
Abortion	2	1	....	3	6
Abusive Language	2	....	....	2	2
Affray	24	2	2	28	15
Aiding and Abetting	....	1	2	3	1
Arson	31	9	....	40	18
Assault, Aggravated	4	....	....	4	4
" Bodily Harm	179	61	30	270	209
" Common	311	85	35	431	497
" Indecent	41	18	2	61	50
" on Police Officer	18	1	....	19	12
Attempted Arson	1	2	....	3	2
" Breaking and Entering ..	....	....	....	....	8
" Bribery	....	....	....	....	1
" Buggery	2	....	2	4	1
" Carnal Knowledge	4	....	1	5	5
" Gaol Breaking	....	....	1	1	1
" Murder	4	1	1	6	....
" Rape	3	2	1	6	2
" Robbery	2	....	....	2	....
" Suicide	19	1	3	23	22
" Theft	9	3	....	12	28
Attending Cock Fight	17	1	....	18	....
Bigamy	11	1	....	12	4
Breach of Amusement Tax Act	14	....	3	17	7
" Bread Sales Act	2	....	....	2	2
" Canada Temperance Act ...	....	....	....	....	2

Offence	Convictions	Dismissals	Withdrawals	Total	
				1936-37	1935-36
“ Children's Maintenance Act	13	....	3	16	9
“ Children's Protection Act	4	1	....	5	3
“ Customs and Excise Act	16	....	....	16	25
“ Forest Fires Act	16	2	....	18	18
“ Game and Fisheries Act	96	10	1	107	90
“ Highway Traffic Act	1,857	145	84	2,086	1,424
“ Hotels Registration Act	6	....	1	7	10
“ Indian Act	17	....	....	17	26
“ Juvenile Delinquents Act	8	....	2	10	10
“ Lord's Day Act	39	7	....	46	6
“ Master and Servant Act	76	19	15	110	89
“ Ontario Securities Act	1	....	2	3	6
“ Other Provincial Statutes	55	14	6	75	22
“ Public Health Act	4	1	....	5	7
“ Railway Act	3	....	1	4	22
“ School Attendance Act	11	1	....	12	3
“ Theatres and Cinematographs Act	1	....	....	1	4
“ Transportation of Fowl Act	13	....	....	13	8
Breach of Peace	6	....	1	7	2
Breaking and Entering	547	52	18	617	497
Breaking Gaol	8	....	....	8	....
Breaking Parole	4	....	....	4	29
Bribery	1	....	1	2	....
Buggery	5	1	2	8	5
Burglary	34	....	1	35	19
Carnal Knowledge	37	9	2	48	47
Causing Bodily Injury	32	51	19	102	11
Causing Explosion	....	1	....	1	....
Concealment of Birth	....	....	....	....	2
Conspiracy	2	3	1	6	15
Contempt of Court	2	2	....	4	4
Corrupting Children	13	4	....	17	5
Corrupting Witnesses	....	1	1	2	2
Counterfeiting	1	....	....	1	5
Criminal Negligence	29	8	5	42	106
Cruelty to Animals	21	10	....	31	33
Damage to Property	109	13	12	134	163
Disorderly Conduct	235	30	17	282	178
Disorderly House (Inmate)	32	2	2	36	27
Disorderly House (Keeping)	20	....	1	21	21
Driving Whilst Intoxicated	228	32	10	270	206
Escaping from Custody	17	1	12	30	27
Extortion	12	5	....	17	5
False Pretenses	159	30	32	221	169
Forgery	89	7	14	110	76
Fraud	9	5	2	16	42
Fraudulent Use of Trademark	....	....	....	....	1
Gambling	1	1	....	2	22
Games of Chance	8	....	....	8	18
Gaming House (Inmate)	17	....	....	17	29
Gaming House (Keeping)	81	4	3	88	15
Highgrading	2	5	....	7	8
Housebreaking and Theft	26	2	2	30	48
Impersonating an Officer	4	2	....	6	2
Incest	17	7	....	24	15
Indecent Acts	30	1	....	31	26
Injury to Animals	12	8	....	20	12
Insane Persons	95	11	3	109	115
Intimidation	25	1	2	28	15
Kidnapping	1	....	....	1	....

Offence	Convictions	Dismissals	Withdrawals	Total	
				1936-37	1935-36
Libel	1	....	....	1	....
Lotteries	7	1	....	8	2
Making Handbooks	1	....	....	1	....
Manslaughter	3	35	4	42	25
Miscellaneous Offences	39	8	8	55	198
Mischief	23	2	3	28	24
Municipal By-laws	42	5	6	53	22
Murder	3	5	1	9	10
Neglect of Children	....	....	....	....	1
Non-Support	31	17	21	69	49
Nuisance	6	1	1	8	2
Obstructing Police Officer	22	1	12	35	39
Obscene Language	1	....	....	1	1
Obscene Literature	1	....	....	1	2
Offensive Weapons	63	6	6	75	72
Perjury	5	4	2	11	14
Pointing Firearms	13	....	1	14	8
Poisoning	....	1	....	1	....
Procuring	3	....	....	3	....
Prostitution	6	....	....	6	....
Rape	4	1	1	6	9
Receiving Stolen Goods	145	37	10	192	207
Resisting Arrest	3	....	1	4	....
Robbery	11	5	1	17	21
Robbery Whilst Armed	18	1	2	21	31
Seduction	7	3	....	10	12
Shooting With Intent	6	1	1	8	2
Shopbreaking and Theft	54	3	....	57	193
Theft	1,169	175	85	1,429	1,343
Theft of Poultry	145	19	5	169	67
Threats	19	5	5	29	21
Trespass	25	14	4	43	31
Unlawful Assembly	9	....	....	9	4
Vagrancy	213	28	33	274	343
Wife Desertion	3	6	....	9	4
Wounding With Intent	19	8	8	35	24
Public Mischief	1	....	....	1	....
TOTAL	7,028	1,096	588	8,712	7,558
Highway Traffic Act cases prosecuted by Motorcycle Patrol	12,315	653	322	13,290	13,482
Liquor Control Act	1,995	170	111	2,276	2,044
GRAND TOTAL	21,338	1,919	1,021	24,278	23,084

Disposition of All Cases Prosecuted

Convictions	21,338
Dismissals	1,919
Withdrawals	1,021
TOTAL	24,278

Arrested with or without warrants and persons summoned for offences against the Criminal Code and other Dominion and Provincial Statutes:—

Arrested with Warrant under Criminal Code and other Statutes	1,575
Arrested with Warrant under Liquor Control Act	66
Arrested without Warrant under Criminal Code and other Statutes	1,880

Arrested without Warrant under Liquor Control Act	814
Summoned etc.	19,943
TOTAL	24,278

A classification of the ages of persons prosecuted for offences against the Criminal Code and other Dominion and Provincial Statutes (exclusive of the Liquor Control Act and the Highway Traffic Act cases prosecuted by the Motorcycle Patrol):

Age 1-10	13
“ 10-15	252
“ 15-20	1,093
“ 20-30	3,278
“ 30-40	1,988
“ 40-50	1,204
“ 50-60	588
“ 60-70	225
Over 70	52
Companies	19
TOTAL	8,712

A classification by nationalities of persons prosecuted for offences against the Criminal Code and other Dominion and Provincial Statutes (exclusive of the Liquor Control Act and the Highway Traffic Act cases prosecuted by the Motorcycle Patrol):—

Canadians	7,197
Americans	133
English	263
Indians	122
Irish	45
Italians	53
Poles	150
Russians	50
Scotch	87
Other Nationalities	593
Companies	19
TOTAL	8,712

Classification of the sex of persons prosecuted for all offences against the Criminal Code and other Dominion and Provincial Statutes (exclusive of the Liquor Control Act and the Highway Traffic Act cases prosecuted by the Motorcycle Patrol):—

Male	8,327
Female	366
Companies	19
TOTAL	8,712

Classification of marital state of persons prosecuted for all offences against the Criminal Code and other Dominion and Provincial Statutes (exclusive of the Liquor Control Act and the Highway Traffic Act cases prosecuted by the Motorcycle Patrol):—

Married	3,793
Single	4,800
Widows	10
Widowers	90
Companies	19
TOTAL	8,712

Number of Search Warrants Executed	
Under the Criminal Code	2,091
Under the Liquor Control Act	3,869
Number of Arrests for Other Forces	357
Summonses Served for Other Forces	1,244

STOLEN PROPERTY RECOVERED

Property that had been reported through various sources as stolen was recovered by members of this Force to the value of $128,081.41.

CONCLUSION

I would like to thank all Municipal Police Forces of the Province, especially the Police Force of the City of Toronto, the Royal Canadian Mounted Police, The Canadian Pacific and Canadian National Railway Police Forces and other Police Forces outside the Province, for their effective assistance and ready co-operation during the year.

I also take this opportunity of thanking the Press for their assistance and consideration during the year. I desire also to express my appreciation to all ranks of the Force for their loyal support and faithful attention to duty, and to place on record the kind and helpful manner in which County Crown Attorneys and Magistrates have encouraged and assisted the members of the Force in matters appertaining to their duties.

Respectfully submitted,

Victor A. S. Williams,
Commissioner of Police for Ontario.

PROVINCE OF ONTARIO

Department of

Northern Development

Report of Operations under the Northern Development Act, R. S. O. 1927

AND AMENDMENTS

For the Fiscal Year ending March 31st

1937

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL PAPER No. 50

ONTARIO

TORONTO
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1938

To:

THE HONOURABLE ALBERT MATTHEWS, LL.D.,
Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present herewith Report on Operations under the Northern Development Act, R. S. O., 1927, and amendments, for the Fiscal Year ended 31st March, 1937.

Respectfully submitted,

T. B. MCQUESTEN,
Minister of Highways,
Minister charged with the Administration of Department of Northern Development.

Department of Northern Development, Ontario,
Toronto, March 31st, 1937.

Honourable T. B. McQuesten, K.C., B.A., LL.B.,

Minister of Highways.
Minister charged with the Administration of
Department of Northern Development, Ontario.

Sir:

I have the honour to present herewith the Report on the construction and maintenance of roads and bridges and other operations, carried on under the provisions of the Northern Development Act, R. S. O. 1927. and amendments during the fiscal year ended 31st March, 1937.

I have the honour to be. Sir,

Your obedient servant,

R. M. Smith,
Deputy Minister.

Department of Northern Development. Ontario,
Toronto, March 31st, 1937.

REPORT OF THE CHIEF ENGINEER

This report covers the period from April 1, 1936, to March 31, 1937.

Section 11 (B) Roads and Bridges.

Expenditures for the year were made under five separate and distinct funds. These and a summary of work performed under each are shown below.

Northern Development.

The work carried out during the year was substantially the same as that done in recent years and consisted for the most part of maintenance of the existing road system and miscellaneous small construction works. All work done under agreements with organized municipalities, and the major part of all other work on township and settlers roads was done under this heading.

During the winter a total of 3,700 miles were kept open to traffic.

An extensive program of dust proofing and semi-stabilization of the more heavily travelled gravel surfaced roads was carried out. This treatment resulted in a firm, dustless surface and in all, 468 miles were treated in this manner.

In the Muskoka and Parry Sound districts a seal coat was applied, where necessary, to the retread pavement on Highway No. 11 over a distance of 48 miles. Similar work was also done on the International Highway in the Fort William-Port Arthur district.

Twenty miles of the loop around Lake Muskoka received a bituminous mulch treatment and the Trans-Canada Highway from Chalk River easterly for fifteen miles was surfaced with a retread pavement.

Work done under this heading is recorded in Appendix A, agreement work in Appendix B-1.

Unemployment Relief — General Work.

During the past several years a major part of all expenditure was under this heading. Reflecting improved conditions the expenditure for this year was considerably less than in the immediately preceding years.

Outside of the Parry Sound, Muskoka, Nipissing and Kenora districts work done was very slight and confined for the most part to small local works at places where the unemployment situation had not been relieved.

In Kenora the contract for the construction of 48 miles of grading and gravelling on the Heenan Highway, started in 1934, was completed and this Highway, linking Fort Frances and Rainy River to Kenora was officially opened in June.

In Parry Sound the contract for the laying of 7.3 miles of retread pavement between Burk's Falls and Sundridge and the construction by day labor of a four mile revision south of Parry Sound to eliminate two level crossings, both started the previous year were completed.

In Nipissing 10 miles of gravelling was done from Algonquin Park westerly. This work was handled by the Hunstville office. A further five miles of the Huntsville-Baysville road, in the Muskoka district, was built.

The large location and survey program, started in the fall of 1934, was considerably curtailed and from June, at which time the location and survey office was closed, onward all this work was handled by the different division engineers.

Work under this heading is detailed in Appendix C.

Unemployment Relief — Trans-Canada Highway.

Expenditure on this highway was greater than that spent under any of the other funds with the major part of the work being done in the north-western part of the province.

On the White River-Schreiber section construction operations, begun the previous year, continued until July at which time the work on this section was closed down with the work 70% completed.

The section between Schreiber and Nipigon was completed and only the lack of a bridge over the Nipigon River prevented traffic from continuing from the west as far east as Schreiber. The construction of this bridge, one of the largest in the province was started during the year and it is expected will be completed early next summer.

Between Nipigon and Dyment and again between Vermillion Bay and the Kenora Boundary the work of grading and gravelling started previous to this year was completed. Grading operations between Dyment and Vermillion Bay were closed down in November to be resumed again in the Spring.

On the easterly section of the highway grading operations were carried out at several points the larger ones being between Carp River and Mamainse, north of Sault Ste. Marie, between Portlock and Pine Island Road and on the revised location between Sudbury and Coniston. East of North Bay gravelling was undertaken for a distance of 28 miles. Practically all of this work was uncompleted at the end of the year.

An additional 112 miles were stabilized with calcium chloride.

A summary of work done under this heading is shown in Appendix D.

Unemployment Relief — Special Highway Projects.

In the summer contracts were let for eighteen separate special highway projects. In every case the work undertaken was considered to be of first importance.

Of interest were the three paving jobs under this program. From Echo Bay on the Trans-Canada Highway east of Sault Ste. Marie, southerly for three miles a contract was let covering the laying of concrete pavement. On Highway No. 11 between New Liskeard and Englehart another project called for the laying of eight miles of mixed macadam pavement and a third project was for the laying of seven miles of premix retread on the Fort Frances-Rainy River Road. Owing to weather conditions the latter two contracts were not started during the year.

Only a very few of these special highway projects were completed during the year.

A detailed summary of work done under this heading is shown in Appendix F.

Unemployment Relief — Mining Road Projects.

Under an agreement with the Dominion Government whereby that government contributed two-thirds and the Ontario Government one-third of the cost, a fund was set up to be used in the construction of new roads and in the improving of existing trails into more or less inaccessible mining properties.

Type of road built was of a pioneer type, the object being only to provide a means of transportation for freight shipments. The actual work was supervised by this department and work was only undertaken after the Department of Mines and Resources at Ottawa had approved of the respective projects.

In all, twenty-seven projects were started, twelve under contract, the balance by day labor.

The largest of these projects was the construction of a road from Dog Hole Bay at the head of water transportation via Lac Seul to the Central Patricia and Pickle Crow Gold Mines, a distance of 26 miles.

Another important project was the cutting of a 43 mile long winter road from Ear Falls to the Jackson Manion Mine.

A third project of note was the extension of the Elk Lake-Gowganda Road a further 10 miles.

Considerable work under this heading was started in the Little Long Lac-Beardmore area, on the network of small roads in the Michipicoten field and in the established Kirkland Lake and Porcupine fields.

Most of the larger projects were uncompleted at the end of the year.

Work done under this heading is detailed in Appendix G.

Appended to this report are schedules of work under each authorized expenditure, a recapitulation of all work done and a statement showing types of roads as existing at the end of this year.

W. B. HUTCHESON,
Acting Chief Engineer.
Department of Northern Development.

DISTRICT REPORTS

No. 1—Muskoka—E. J. Hosking, Huntsville.

Northern Development.

Work done under this heading consisted for the most part of the regular maintenance.

On Highway No. 11 between Severn and Novar, a distance of 25.8 miles, a seal coat was applied where necessary to seal patches.

The newly constructed diversions, aggregating 11 miles between Gravenhurst and Bala were given a mulch treatment. This completed the mulching, begun the previous year on this road. A further 9 miles of mulch surfacing was carried out between Bracebridge and Beaumaris.

Between Huntsville and Dwight and between Beaumaris and Port Carling the road was stabilized with calcium chloride.

Unemployment Relief — General Work.

On the Huntsville-Baysville road 4.8 miles of new grade were constructed and opened to traffic. On the Honey Harbor road four miles were surfaced with crushed limestone.

In the township of Baxter the department laid out and supervised work on township roads, the labour for which was supplied by the Department of Welfare.

Unemployment Relief — Special Highway Projects.

During the summer contracts were let on three special highway projects. These were for the revision of seven miles of highway between Gravenhurst and Bala to eliminate many danger spots, the revision of 5.5 miles on the Bracebridge-Dorset road in the vicinity of Wa Wa and the revision on Highway No. 11 at Gibraltar to eliminate an extremely dangerous grade and curve. The last two of these projects remained uncompleted at the end of the year.

No. 2—Nipissing, Sturgeon Falls and Renfrew North—C. Tackaberry, North Bay.

Northern Development.

General maintenance provided the bulk of work done under this heading.

A contract was let for the bituminous surfacing of 15 miles on the Trans-Canada Highway from Chalk River east.

Extensive stabilization work was carried out on the main highways, a total of 109 miles being treated with calcium chloride.

Considerable work was also done on settlers roads and bridges throughout the district. Under agreement, work was done in 14 organized townships on a fifty-fifty basis and some additional assistance was given to the municipalities in the maintenance and reconstruction of their larger bridges.

Unemployment Relief — General Work.

Work under this heading consisted for the most part of minor improvements principally on secondary and township roads.

A contract was let for the gravelling of 10 miles of road from Algonquin Park westerly.

At Canoe Lake Portage a parking space of approximately one acre was laid out for the Department of Lands and Forests.

Both the above mentioned works were looked after by the Huntsville office owing to its proximity to the work.

Unemployment Relief — Trans-Canada Highway.

The grading at Bisset's Creek started last year under contract was completed. A contract was let for the construction of a diversion, 1.5 miles long, to eliminate a level railway crossing at Duchesnay Creek just west of North Bay. Another contract was let for the gravelling of 28 miles from North Bay easterly. The work was fifty per cent. completed at the end of the year.

This is the first time ¾ inch crushed gravel was placed on any road in this district and the results proved very gratifying.

Considerable work was also done by day labor, the most important being the stabilizing with calcium chloride of 71 miles.

Unemployment Relief — Special Highway Projects.

Five special highway projects were undertaken by contract. On Highway No. 11 a new bridge over the Tomiko River was built. Between Algonquin Park Station and Whitney the grading of 14 miles of road was undertaken and approximately 80% completed during the year. Work on this contract was administered by the Huntsville office. The grading of the remaining 5.5 miles on the North Bay-Temiskaming road was started and although not completed during the year the road was passable during the freeze-up affording an outlet for the town of Temiskaming. Six and a half miles of new road were constructed north from Mattawa which allowed a lumber company to haul its logs from the limits to the mill. A further three miles of this contract was not worked on during the year. The fifth project was for the reconstruction of the Dafoe Hospital Road. This four mile road carries more traffic than any other road in the north. Work on this contract was not completed during the year.

No. 3—Sudbury—A. M. Mills, Sudbury.

Northern Development.

Expenditure under this heading was limited to the regular maintenance with very little construction undertaken. The most important work done was the dust laying of the Sudbury-Falconbridge and Copper Cliff-Creighton roads.

A drafting office and storage sheds were erected on the new warehouse site.

Work was done in nine organized townships under agreements and in unorganized townships statute labor work was carried out.

Unemployment Relief — General Work.

Day labor construction and maintenance work was undertaken on a limited scale, and only in areas where the unemployment situation was bad. The largest job was the regrading and gravelling of 12 miles of the Sudbury-Garson road. Eight miles of this road were stabilized with calcium chloride.

Unemployment Relief — Trans-Canada Highway.

In August a contract was let for the grading of the revision between Coniston and Sudbury. This revision, 6.5 miles long. eliminates a stretch of very winding road. At the end of the year the contract was approximately half completed.

Forty-one miles of this highway were stabilized with calcium chloride and some day labor maintenance work was also done.

Unemployment Relief — Mining Road Projects.

Under the Dominion-Ontario agreement the improvement of 13 miles of the road into Three Duck Lake in the vicinity of Gogama was carried out by day labor.

No. 4—Temiskaming—V. H. Longstaffe, New Liskeard.

Northern Development.

Stabilization, with calcium chloride was carried out on fifty miles of Highway No. 11. The balance of this fund was used for maintenance principally on trunk and secondary roads. Fourteen municipalities entered into agreements with the department.

Unemployment Relief — General Work.

The construction of five small wooden bridges and some hand ditching comprised the bulk of work done under this fund.

Unemployment Relief — Special Highway Projects.

A contract was let for the paving with mixed macadam of eight miles on Highway No. 11 between New Liskeard and Englehart but owing to the fact work was not started until late in the fall the contract was closed down with little work done.

Unemployment Relief — Mining Road Projects.

Under the Dominion-Ontario agreement extensive work was started in the Gowganda area. On the Elk Lake-Matachewan Road a contract was let for the reconstruction of 5.6 miles of road. On the Elk Lake-Gowganda road another contract was let for the construction of 10 miles of road and work on a further nine miles of this road was undertaken by day labor. On the road into the Cuniptau Mine two bridges were built by day labor. Three miles of the tote road into the Afton Mine were graded and gravelled. The work on this latter project was administered by the North Bay office.

No. 5—South Cochrane—H. R. Phipps, Matheson.

Northern Development.

The major part of the work done consisted of the usual maintenance principally on trunk and secondary roads. Some gravelling was done on Highway No. 11 and the Porquis Junction-Timmins and Swastika-Kirkland Lake Roads. All work done was by day labor.

The Proquis Junction warehouse was completed and a warehouse at Timmins built during the year. All equipment from the Swastika and Matachewan camps was taken out during the winter and shipped to Matheson.

Between South Porcupine and Timmins calcium chloride stabilization was carried out.

Four municipalities entered into agreements with the department.

Unemployment Relief — General Work.

The most important work carried out under this heading was the completion of the Connaught Bridge over the Frederickhouse River and the repairing of the Connaught Dam, due to the fact that a part of the previous dam was washed out. Extensive relocation surveys were carried out on Highway No. 11.

Unemployment Relief — Mining Road Projects.

Under this agreement the work of improving existing roads was undertaken on five separate small projects. On three of these projects, aggregating 10 miles, the work was done by contract, the other two, amounting to four miles, were done by day labor.

No. 6—North Cochrane—D. A. Maciver, Cochrane.

Northern Development.

Only absolutely necessary maintenance work and the completion of the construction of several small bridges started last year were done under this heading.

Two municipalities did work under agreement with the department.

Unemployment Relief — General Work.

Only minor construction and maintenance work was undertaken.

Unemployment Relief — Special Highway Projects.

A contract was let for the raising of the level of Highway No. 11 at Opasatika, to relieve flooding. At the end of the year this was ninety per cent. completed.

No. 7—Fort William and Port Arthur—E. Smith, Fort William.

Northern Development.

Most of this fund was spent on maintenance operations but small construction jobs were done on many secondary and trunk roads. Calcium chloride was applied to 11 miles of road in the Fort William area. On the International Highway the retread pavement was repaired for some distance. All work done was by day labor.

Agreements were entered into with nine Municipalities and work done on a fifty-fifty basis, and statute labor work was done in all unorganized townships.

Unemployment Relief — General Work.

Very little work was done under this heading. The only work of any size was the completion of the contract for the grading of the road from Little Long Lac seven miles westerly. Extensive location surveys were run between Geraldton and Nipigon.

Unemployment Relief — Trans-Canada Highway.

At the start of the year the largest and most important work. not only in this district, but in all Northern Ontario was in operation between White River and Schreiber. Here under five contracts, the work of building 112 miles of this highway started the previous year, was being continued and some 2,700 men were employed.

In July with the work 70% completed operations were closed down and the contractors took out their equipment.

The section between Rossport and Nipigon, under contract, was completed. A contract was let and under it bridges were built over the remaining four unbridged rivers on this section. Considerable work on the revision between Schreiber and Rossport was done by day labor.

A contract was let for the construction of the Nipigon River Bridge. This bridge, 779 feet long, of steel construction with concrete foundations, is one of the largest that will be required on the Trans-Canada Highway. When completed, traffic will be able to travel as far easterly as Schreiber. At the end of the year the erection of this structure was not completed.

On the travelled section of this highway considerable maintenance was carried out. A contract was let but not completed for the erection of four new bridges between Nipigon and Port Arthur. Between Fort William and English River the contract for regrading was completed, only very little work being required to attain same.

Unemployment Relief — Special Highway Projects.

One contract was let for the grading of 4.5 miles on the Dawson Road and another for the construction of three creosoted timber bridges on this same road. Very little work was done on this latter contract.

Unemployment Relief — Mining Road Projects.

Under the Dominion-Ontario agreement this district received a larger grant than any other district.

The largest individual project on the entire program was the construction of twenty-five miles of road from Dog Hole Bay at the end of water transportation via Lac Seul to the Pickle Crow and Central Patricia mines. This work was let by contract and was not completed during the year.

Extensive work was undertaken in the Little Long Lac and Sturgeon River mining areas. Between Beardmore and Sand River mine, a distance of 6.2 miles, a grading contract was started but not completed. Two further contracts were let to cover the grading between Little Long Lac and Bankfield and Hardrock. Total mileage was 13 miles. Under day labor the following work was done, improving six miles of road between Vaulore Fish Siding and Sturgeon Lake, improving 25 miles of the road south from Collins to the Obonga Mine, construction of four miles of road between Geraldton and Hutchinson Lake and the improving of 9.5 miles on the road from Tip-Top to the Ardeen Mine.

No. 8—Kenora—E. A. Kelly, Kenora.

Northern Development.

Work done under this heading consisted of the maintenance of the existing roads and scattered construction, mainly on settlers roads. Five miles of road were treated with calcium chloride. Agreements for work to be done on a fifty-fifty basis were entered into with two municipalities.

Unemployment Relief — General Work.

The most important item under this fund was the completion of the construction, done by contract, of 46 miles on the Heenan Highway. In June this highway was officially opened to traffic.

The contract for the construction of 18 miles of road between Sioux Lookout and Dinorwic started the previous year was completed in June and the work on the spur line from Sioux Lookout to Hudson was completed in October.

Other miscellaneous work was done by day labor.

Unemployment Relief — Trans-Canada Highway.

All work under this scheme was confined to contract jobs let previous to this year.

The contract for grading of 15 miles of road between Kenora and the Manitoba Boundary was completed in June.

The work of grading and gravelling the Vermillion Bay-Kenora section was completed. Between Vermillion Bay and Dyment grading operations were carried on until November and then closed down for the winter.

The work of regrading on the English River-Dyment section was completed in June.

Unemployment Relief — Special Highway Projects.

A contract was awarded in the fall for an additional 4.5 miles of grading on the Hudson-Sioux Lookout road.

Unemployment Relief — Mining Road Projects.

Extensive work under this agreement was started in the Kenora district.

The largest job was the clearing and grubbing of a winter road 43 miles long from Ear Falls at the head of Lac Seul to the Jackson-Manion mine.

The construction of a road 4.5 miles long from the Heenan Highway into the Wendigo mine was started but not completed during the year.

A road one mile long was built from Red Lake to the Red Lake Gold Shore mine.

The above work was all done by contract. Under day labor the nine miles of road from Red Lake to the Madsen mine and the 4.5 miles of road from Dyment to the Clark Gold Mine were improved.

No. 9—Rainy River—G. H. Lowry, Fort Frances.

Northern Development.

All work done was by day labor and was confined to only necessary maintenance and small construction jobs. Two creosoted timber and two native timber bridges were erected. Calcium chloride was applied to 19.5 miles. Agreements were carried out with 12 organized municipalities on a fifty-fifty basis and in seven unorganized townships some statute labour work was done.

Unemployment Relief — General Work.

On the Heenan Highway one mile was regraded and sections between Emo and Nester Falls gravelled. Two miles of the Rainy River-Fort Frances road were regraded and sundry work on secondary and township roads was carried out. Day labor was used for all work.

Unemployment Relief — Special Highway Projects.

In the fall a contract was let for the laying of seven miles of premix retread from Fort Frances westerly but owing to weather conditions was never started.

No. 10—Algoma, Manitoulin, Sault Ste. Marie—R. A. McAllister, Blind River.

Northern Development.

Up to September of this year the districts of Algoma-Manitoulin and Sault Ste. Marie were separate and distinct. In that month these two districts were combined with the division office at Blind River and a branch office at Sault Ste. Marie.

Regular Northern Development work in the combined districts was of the regular maintenance confined for the most part to Highway No. 17 and day labor construction, principally on the roads in the vicinity of Sault Ste. Marie. A total of 174 miles of road were stabilized.

A contract was let for the repairing of the abutments and piers of the bridges over the Spanish River at Webbwood and Massey.

Twelve municipalities entered into agreements with the department and work was done on a fifty-fifty basis.

Unemployment Relief — General Work.

Work done under this heading was very limited. Day labor gangs carried out small construction and maintenance works throughout the district.

Unemployment Relief — Trans-Canada Highway.

To complete the Trans-Canada Highway to Mamainse, north of Sault Ste. Marie a contract was let for the grading of 16 miles from Carp River to that point. Work on this section had been started the previous year under day labor. At the end of the year the contract was 60% completed.

A four mile revision at Algoma and a three mile revision at Serpent River were both put under contract and in November work was stopped for the winter on both these jobs.

During the past several years relief work had been carried on on the revision between Portlock and Pine Island Road, a distance of ten miles. In September a contract was let for the completion of this revision and at the end of the year three quarters of the work was completed.

Unemployment Relief — Special Highway Projects.

One contract was let in July for the paving with concrete of three miles from Echo Bay south. Two and a half miles of pavement were laid before weather conditions forced suspension of operations for the winter.

On Manitoulin Island a small contract was let for a revision at Fossil Hill. Work was not completed during the year.

Unemployment Relief — Mining Road Projects.

All work under this agreement was done by day labor. On the Goudreau-Lochalsh road 16 miles were improved and in the Michipicoten area improvements were made to the network of short roads.

No. 11—Parry Sound—R. E. Richardson, Parry Sound.

Northern Development.

Outside of the regular maintenance program which was carried out as in previous years, a seal coat was applied to the retread pavement on Highway No. 11 between Powassan and Callender, a distance of 10 miles and from Novar north a further distance of 10 miles.

North of Parry Sound a 90 foot creosoted timber bridge with concrete abutments was built over the Shawanaga River.

Forty nine miles of the Bala-Parry Sound-Point au Baril highway were treated with calcium chloride.

On the network of secondary roads several short revisions and three forty-five foot bridges were constructed.

Some 30,000 cu. yds. of gravel were stockpiled at various points throughout the district.

Unemployment Relief — General Work.

The contract for the laying of retread pavement, started the previous year, between Burk's Falls and Sundridge was completed.

Under day labor the four mile revision to eliminate two level railway crossings just south of Parry Sound was also completed. Considerable further regrading was also carried out on the Bala-Parry Sound-Point au Baril road.

No work was done under this heading on township roads.

Unemployment Relief — Special Highway Projects.

One contract was let for the laying of concrete pavement on Highway No. 11 from Sundridge north, a distance of seven miles.

Another contract was let covering the extension of the Bala-Parry Sound-Point au Baril highway from Point au Baril northerly a further distance of 8.5 miles. Work on this contract was uncompleted at the end of the year.

COLONIZATION ROADS BRANCH
REPORT OF THE ENGINEER

Expenditures, approved under authority of the Colonization Roads Act, were made during the fiscal year in the Electoral Districts of:—

Addington
Hastings East
Hastings West
Lanark
Leeds
Muskoka
Nipissing
Parry Sound
Peterborough
Renfrew North
Renfrew South
Simcoe Centre
Simcoe East
Victoria

All work carried out in the Municipalities and Unorganized Townships in these Districts was under the supervision of the Department Engineers, the District Engineers at Huntsville, North Bay and Parry Sound, and the Division Engineers at Kinmount, Madoc and Barry's Bay.

Construction and Maintenance.

Expenditures under this head were for the acquiring of right-of-way on main roads, fencing and damages to property sustained through construction operations; maintenance of all main roads and to a limited extent the construction of certain important sections. In addition, grants were made for the construction and maintenance of Township roads in 105 Organized Municipalities and 19 Unorganized Townships.

The work accomplished is scheduled in Appendix E.

By-law Work.

121 Municipalities passed Colonization Roads By-laws whereby the department contributed 50% of the cost of carrying out the work and the purchase of equipment.

The work performed is recorded in Appendix B-2.

Unemployment Relief — General Work.

Expenditures for the construction of a number of main roads were continued with an allotment provided from the unemployment relief funds of the Department of Northern Development. Work was carried out by day labour and by contract. The location of this work is shown hereunder in the reports of the Division Engineers.

The work performed is shown in Appendix C for the Electoral Districts through which these roads pass.

Unemployment Relief — Special Highway Projects.

Two special highway projects were started under contract in the summer. Neither was completed during the year.

Work done is shown in Appendix F.

Unemployment Relief — Mining Road Projects.

Under the Dominion-Ontario agreement two mining road projects were undertaken and completed during the year.

This work is recorded in Appendix G.

General.

Towards the end of the fiscal year the Colonization Roads Branch was reorganized under the Department of Highways; the headquarters at Kinmount, Madoc and Barry's Bay were abolished, the respective areas being absorbed by different divisions of the Department. All work carried out by Municipalities under Colonization Road By-laws was placed under the supervision of the Municipal Roads Branch.

A. L. McDougall,
Colonization Roads Engineer.

Kinmount Division—Electoral Districts of Peterborough, Victoria, Simcoe Centre and Simcoe East—T. C. Swartman, Division Engineer, Kinmount.

Construction and Maintenance. Maintenance was carried out by day labour on all main and secondary roads. No construction was undertaken during the year. Between Coboconk and Dorset and between Minden and Haliburton stabilization of the road surface was carried out. Work was done under direct grants in 24 municipalities.

At the end of the fiscal year this division was absorbed by the divisions of Port Hope and Muskoka.

Unemployment Relief — General Work. The contract for the extension of the Haliburton-Eagle Lake Road to Redstone Lake was completed early in 1937.

Under day labour the grading between Rosedale and Coboconk and between Burnt River and Kinmount, also a two mile revision on the Apsley-Bancroft road were all completed.

Some construction work was also done on the Port Severn, Severn Falls and Monck roads.

Unemployment Relief — Mining Road Projects. Under day labour six miles of the road from Lakefield to the Nepheline Mine were improved.

By-law Work. Thirty-six townships carried on By-law work under the Colonization Roads Act.

Madoc Division—Electoral Districts of Addington, Frontenac, Hastings East, Hastings West and Leeds—C. F. Szammers, Madoc.

Construction and Maintenance. Work done under this heading consisted entirely of general maintenance of the main roads in the division, the work being done by day labor.

In addition direct grants were made to 26 organized municipalities for the construction and maintenance of township roads, the most important work done being on the Craig Mine Road.

At the end of the fiscal year the Madoc Division was abolished, the newly created division of Bancroft taking in nearly all of this area.

Unemployment Relief — General Work. On the Kaladar-Dacre road the construction of two revisions, one, three miles long immediately north of Kaladar, the other south of Denbigh were completed.

Construction was carried out on several miles of the Sharbot Lake-Lavant Road and largely completed during the year.

Some scattered work was done on the Maynooth-Combermere and Chaffey's Locks roads.

All work done was by day labor.

Unemployment Relief — Special Highway Project. A contract was let in the summer for the construction of 23 miles of the new Hastings road between Millbridge and Jan's Corners. This work was not completed during the year.

By-law Work. Twenty-eight townships worked out by-laws under the supervision of this department.

Barry's Bay Division—Electoral Districts of Renfrew North, Renfrew South and Lanark—J. B. Whitton, Barry's Bay.

Construction and Maintenance. Only necessary maintenance on the trunk and secondary roads was carried on.

Direct grants were made to 25 municipalities and two unorganized townships.

At the end of the fiscal year this division was absorbed by the Ottawa, Nipissing and Bancroft divisions.

Unemployment Relief — General Work. Under day labor grading operations were carried on on several of the main and secondary roads.

On the Killaloe-Round Lake road new construction was undertaken, but not completed over an eleven mile stretch.

Three miles of the Barry's Bay-Pembroke road were constructed as were one mile sections on each of the Whitney-Madawaska, Eganville-Dacre and Calabogie-Burnstown roads.

Unemployment Relief — Special Highway Projects. A contract was let in the summer for the construction of 4.3 miles of road between Barry's Bay and Combermere. At the end of the year 3.5 miles had been constructed.

Unemployment Relief — Mining Road Projects. Under the Dominion-Ontario agreement a contract was let for the improving of the road from Calabogie to the Black Donald Mine, a distance of 13 miles.

By-law Work. Fourteen municipalities carried on work under by-laws.

Districts of Muskoka, Parry Sound and Nipissing.

In addition to the work already described; under the Colonization Roads Act certain direct grant and by-law work was carried out in these districts.

In Muskoka 18 municipalities and one unorganized township availed themselves of direct grants. Twenty-two townships also carried on by-law work.

In Parry Sound 12 municipalities and 16 unorganized townships did work under direct grants and by-law work was done in 19 townships.

In Nipissing two townships did work under by-laws.

SUMMARY OF EXPENDITURES OF ALL SERVICES UNDER THE ADMINISTRATION OF THE DEPARTMENT OF NORTHERN DEVELOPMENT

For the Twelve Months Period Ended 31st March, 1937

Department of Northern Development	$1,959,604 44
Trans-Canada Highway; Unemployment Relief	3,226,827 26
General Work; Unemployment Relief	1,675,117 75
Mining Roads; Unemployment Relief	515,710 45
Special Highway Projects; Unemployment Relief	944,952 20
Special Warrant; Commission of Enquiry at Matheson	548 80
Special Warrant; Seed Grain	56,764 33
	$8,379,525 23
Colonization Roads Branch	324,259 85
	$8,703,785 08

SUMMARY OF EXPENDITURES FOR THE TWENTY-FIVE YEARS ENDED MARCH 31st, 1937

THE NORTHERN DEVELOPMENT FUND, R. S. O. 1927, CHAPTER 36, SECTION 11

Work Undertaken	Summary of Expenditure 23rd May, 1912, to 31st March, 1936	Expenditure for twelve months period ended 31st March, 1937	Total Expenditure to 31st March, 1937
Section 11 (a)—Works and Improvements	$2,100 00	....	2,100 00
" 11 (b)—Roads and Bridges	64,207,414 33	$1,955,354 94	66,162,769 27
" 11 (d)—Farms	206,110 04	....	206,110 04
" 11 (d)—Assistance of Settlers' Fire Relief	329,099 50	....	329,099 50
" 11 (d)—Assistance of Settlers' Saw Mills	14,945 90	....	14,945 90
" 11 (d)—Assistance of Settlers' Feed Shortage	131.799 50	....	131,799 50
" 11 (d)—Creameries and Grain Elevators	83.181 29	....	83,181 29
" 11 (f)—Seed Grain	423.006 41	52 85	423,059 26
" 11 (f)—Agricultural Implements	46,835 22	....	46,835 22
" 11 (h)—Purchase of Cattle	124,131 04	22 75	124.153 79
" 11 (j)—Schools and other Public Buildings	52,999 29	....	52,999 29
" 11 (k)—Work not otherwise provided for	4.519 27	....	4.519 27
Returned Soldiers' and Sailors' Settlement Act. 1917	1,185,568 02	....	1,185,568 02
	$66,811,709 81	$1,955,430 54	$68,767,140 35
Settlers' Loan Account	2,181,041 48	4,173 90	2,185,215 38
	$68.992,751 29	$1,959.604 44	$70,952.355 73

DEPARTMENT OF NORTHERN DEVELOPMENT

EXPENDITURE FOR THE YEAR ENDED MARCH 31st, 1937
R. S. O. 1927, CHAP. 36

Administration, Vote 137, Item 1. ($99,898.40)

Salaries, Permanent Staff	$ 78,596 47		
Less: Refund of Salaries, transferred from Medical Fund	3,920 32		
		$ 74,676 15	
Travelling Expenses, Supplies and Contingencies		25,222 25	
			$ 99.898 40

Roads and Bridges: Vote 137. Item 4, Vote 140, Item 1. ($1.800,035.40)

District No. 1. Huntsville	$ 154,330 44
District No. 2. North Bay	187,698 06
District No. 3. Sudbury	133,543 90
District No. 4. New Liskeard	173,694 73
District No. 5. Matheson	158.155 89
District No. 6. Cochrane	123.030 15
District No. 7. Fort William	216.256 09
District No. 8. Kenora	166.047 41
District No. 9. Fort Frances	104.179 24
District No. 10. Blind River	276.287 18
District No. 11. Parry Sound	203.066 20
General Timber Account	78,904 26
	$1.975.193 55
Less: Repayments transferred from Refund Acct	175.158 15
	$1,800.035 40

District No. 1. Huntsville. ($154,330.44)

Engineer E. J. Hosking, Huntsville.

Bracebridge-Dorset Road	$ 13,166 03	
Bracebridge-Glen Orchard Road	23,975 30	
Falkenburg-Rosseau-Parry Sound Road	6,738 91	
Ferguson Highway	43,454 94	
Gravenhurst-Bala-Parry Sound Road	25,083 46	
Honey Harbour Road	2,577 94	
Huntsville-Baysville Road	1,395 40	
Huntsville-Dorset Road	11,042 14	
Equipment and Tools	6,723 10	
Settlers' and Other Roads, Sundry Expenditure	20,173 22	
		$ 154,330 44

District No. 2. North Bay. ($187,698.06)

Engineer C. Tackaberry, North Bay.

Bigwood-French River Diversion	2,223 20	
Dwight-Algonquin Park-Whitney Road	1,975 88	
Ferguson Highway	41,597 34	
Mattawa-Callander Road	2,274 65	
North Bay-Temiskaming Road	10,268 62	
River Valley-Afton Mine Road	4,132 67	
Sturgeon Falls-Field Road	1,170 02	
Trans-Canada Highway	30,638 89	
Warren-Rutter Road	9,279 48	
Equipment and Tools	13,497 83	
Settlers' and Other Roads, Sundry Expenditure	70,639 48	
		187,698 06

District No. 3. Sudbury. ($133,543.90)

Engineer A. M. Mills, Sudbury.

Copper Cliff-Creighton Road	2,618 08	
Sudbury-Burwash Road	3,651 84	
Sudbury-Capreol-Milnet Road	3,959 72	
Sudbury-Garson-Massey Bay Road	6,085 21	
Sudbury-Levack-Cartier Road	4,632 21	
Sudbury-Long Lake Road	1,939 97	
Trans-Canada Highway	14,352 16	
Equipment and Tools	16,568 69	
Settlers' and Other Roads, Sundry Expenditure	79,736 02	
		133,543 90

District No. 4. New Liskeard. ($173,694.73)

Engineer V. H. Longstaffe, New Liskeard.

Casey-Brethour Road	1,669 77	
Elk Lake-Matachewan Road	9,512 25	
Ferguson Highway	45,526 02	
Gowanda Road	3,054 62	
Krugerdorf Bridge	9,197 97	
La Rose Bridge	17,526 64	
New Liskeard-Elk Lake Road	9,681 49	
North Temiskaming Road	3,348 39	
Wabewawa Bridge	2,673 45	
Equipment and Tools	10,076 07	
Settlers' and Other Roads, Sundry Expenditure	61,428 06	
		173,694 73

District No. 5. Matheson. ($158,155.89)

Engineer H. R. Phipps, Matheson.

Back Road from South Porcupine to Timmins	1,913 37	
Blue Quartz Mine Road	6,492 97	
Ferguson Highway	43,894 60	
Kirkland Lake-Quebec Boundary Road	16,738 19	
Matheson-Shillington-Connaught Road	1,778 02	
Porquis Jct.-Iroquois Falls Road	4,982 01	
Porquis Jct.-Timmins Road	26,666 59	
Swastika-Matachewan Road	2,998 71	
Equipment and Tools	13,900 30	
Settlers' and Other Roads, Sundry Expenditure	38,791 13	
		158,155 89

District No. 6. Cochrane. ($123,030.15)

Engineer D. A. Maciver, Cochrane.

Cochrane-Hearst Road	34,097 32	
Cochrane-Norembega Road	4,189 81	
Ferguson Highway	3,796 56	
Frederick House Bridge	3,087 16	
Gardiner Road	2,309 74	
Hearst-Coppell Road	4,151 17	
Equipment and Tools	14,305 02	
Settlers' and Other Roads, Sundry Expenditure	57,093 37	
		123,030 15

District No. 7. Fort William. ($216,256.09)

Engineer E. Smith, Fort William.

Dawson Road	4,716 98	
Devon Road	1,903 71	
Geraldton-Little Long Lac Road	11,401 15	
Gunflint Highway	2,270 62	
International Highway	7,629 76	
Kakabeka-Hymers Road	2,977 35	
Marks Road	1,559 28	
Oliver Road	7,341 83	
Onion Lake Road	2,753 81	
Scoble Road	2,069 28	
Sibley West Road	2.199 05	
Silver Mountain Road	1,891 02	
Trans-Canada Highway	6,958 97	
Twin City Cross Road	6.688 80	
Equipment and Tools	27,044 34	
Settlers' and Other Roads, Sundry Expenditure	126,850 14	
		216,256 09

District No. 8. Kenora. ($166,047.41)

Engineer E. A. Kelly, Kenora.

Darkwater Mine Road	1,466 39	
East Melick Road	2,051 74	
Heenan Highway	5,394 73	
Lac Lu Loop Road	1,474 26	
Muriel Lake Road	2,677 11	
Pelican River Bridge	7,853 31	
Pellatt Road	2,833 08	
Pine Grove Road	1,908 75	
Redditt Road	5.945 74	
Sioux Lookout-Dinorwic Road	7,972 32	
Trans-Canada Highway	15,835 72	
Equipment and Tools	23,213 04	
Settlers' and Other Roads, Sundry Expenditure	87,421 22	
		166,047 41

District No. 9. Fort Frances. ($104,179.24)

Engineer G. H. Lowry, Fort Frances.

Arbor Vitae Road	2,943 45	
Barwick Road	1,131 22	
Devlin Road	1.608 00	
Fort Frances-Rainy River Road	10,867 66	
Heenan Highway	3,909 84	
La Vallee Road	2,537 14	
River Road	2,170 67	
Sleeman-Morson Road	1,370 55	
Spohn Road	1.051 40	
Equipment and Tools	22,314 45	
Settlers' and Other Roads, Sundry Expenditure	54.274 86	
		104,179 24

District No. 10. Blind River. ($276,287.18)

Engineer R. A. McAllister, Blind River.

Chaplean-Iron Bridge Road	3.757 27	
Crystal Falls Road	1,941 30	
Dunn Valley Road	1.293 17	
Espanola-Little Current Road	12,403 04	
Gore Bay-Meldrum Bay Road	2,269 48	
Gore Bay-Providence Bay Road	1.988 61	

Kensington Ferries	6,002 60	
Little Current-Gore Bay Road	6,875 25	
Little Current-Manitowaning Road	2,953 68	
Old Goulais Bay Road	1,912 04	
People's Road	4,329 04	
Pine Island Ferries	9,643 02	
Point Aux Pins Road	5,932 85	
Providence Bay-Manitowaning Road	1,356 37	
Sandfield-Mindemoya Road	1,638 34	
Sault Ste. Marie-Searchmont Road	5,303 59	
Second Line, Korah	10,032 57	
Spanish River Bridge at Webbwood	29,282 35	
St. Joseph Island Roads	8,149 02	
Trans-Canada Highway	47,327 22	
Wharncliffe Road	1,429 39	
Equipment and Tools	22,149 37	
Settlers' and Other Roads, Sundry Expenditure	88,317 61	
		276,287 18

District No. 11. Parry Sound. ($203,066.20)

Engineer R. E. Richardson, Parry Sound.

Burks Falls-Parry Sound Road	24,731 71	
Emsdale-Sprucedale Road	3,442 20	
Falkenburg-Rosseau-Parry Sound Road	21,689 91	
Ferguson Highway	77,205 05	
Gravenhurst-Bala-Parry Sound Road	3,695 53	
Parry Sound-Sudbury Road	9,322 74	
Powassan-Chisholm Road	1,848 73	
Powassan-Restoule Road	5,248 59	
Sundridge-Magnetewan Road	5,263 03	
Trout Creek-Loring Road	17,606 79	
Equipment and Tools	4,090 44	
Settlers' and Other Roads, Sundry Expenditure	2,892 48	
		203,066 20
General Timber Account		78,904 26
		$1,975,193 55
Less: Repayments transferred from Refund Account		175,158 15
		$1,800,035 40

UNEMPLOYMENT RELIEF. TRANS-CANADA HIGHWAY. ($3,226,827.26)

Clauses 4, 5, Projects, 8-22, agreement dated Sept. 10th, 1937

Ottawa Valley Section:	
Project No. 17.	
From Pembroke through Mattawa to North Bay	98,794 38
Thunder Bay Section:	
Projects 8, 9, 10, 22.	
From Rossport to Schreiber to Nipigon through Port Arthur and Fort William to English River	228,593 92
Western Section:	
Projects 11, 12, 13, 14, 15, 16.	
From English River through Dyment, Dinorwic, Dryden. Kenora to Manitoba Boundary	682,484 37
Schreiber to White River Section:	
Project 18.	
From Schreiber easterly to White River	1,727,712 78
North Bay to Sault Ste. Marie Section:	
Project 20.	
From North Bay to Sault Ste. Marie	327,463 03

Sault Ste. Marie to White River Section:	
Project No. 21.	
From Sault Ste. Marie to White River	106,577 88
General Expenses	55,200 90
Totals	$3.226.827 26

GENERAL WORK — UNEMPLOYMENT RELIEF. ($1,675,117.75)

25 Geo. V. Chap. 71, Sec. 2

District No. 1. Huntsville	$71,974 65
District No. 2. North Bay	270,199 31
District No. 3. Sudbury	24,850 07
District No. 4. New Liskeard	42,428 31
District No. 5. Matheson	25,384 53
District No. 6. Cochrane	38,487 43
District No. 7. Fort William	51,792 62
District No. 8. Kenora	557,942 32
District No. 9. Fort Frances	32,240 90
District No. 10. Blind River	47,928 66
District No. 11. Parry Sound	214,489 85
District No. 12. Kinmount	160,873 89
District No. 13. Barry's Bay	68,799 82
District No. 14. Madoc	55,607 71
Norfolk County	839 34
Rondeau Provincial Park	1,070 76
General Expense Account	10,207 58
	$1,675,117 75

District No. 1. Huntsville. ($71,974.65)

Engineer E. J. Hosking, Huntsville.

Ferguson Highway	$1,299 43	
Gravenhurst-Bala-Parry Sound Road	34,642 00	
Honey Harbour Road	819 90	
Huntsville-Baysville Road	32,230 14	
Other Roads, Sundry Expenditure	2,983 18	
		71,974 65

District No. 2. North Bay. ($270,199.31)

Engineer C. Tackaberry, North Bay.

Dafoe Hospital Road	19,166 30	
Dwight-Algonquin Park-Whitney Road	105,457 62	
Ferguson Highway	8,589 88	
North Bay-Temiskaming Road	113,404 24	
Sturgeon Falls-Field Road	5,182 85	
Warren-Rutter Road	3,655 50	
Other Roads, Sundry Expenditure	14,742 92	
		270,199 31

District No. 3. Sudbury. ($24,850.07)

Engineer A. M. Mills, Sudbury.

Chapleau-Iron Bridge Road	1,088 47	
Copper Cliff-Creighton Road	1,796 77	
Sudbury-Burwash Road	4,207 63	
Sudbury-Garson-Massey Bay Road	5,909 56	
Sudbury-Long Lake Road	1,161 74	
Sudbury-Milnet Road	1,692 09	
Other Roads, Sundry Expenditure	8,993 81	
		24,850 07

District No. 4. New Liskeard. ($42,428.31)

Engineer V. H. Longstaffe, New Liskeard.

Elk Lake-Charlton Road	6,770 44
Ferguson Highway	5,273 54
Lorrain Road	2,242 46

New Liskeard-Elk Lake Road	6,151 20	
Rohn Lake-Asbestos Mine Road	2,343 33	
Other Roads. Sundry Expenditure	19,647 34	
		42,428 31

District No. 5. Matheson. ($25,384.53)

Engineer H. R. Phipps, Matheson.

Connaught Bridge	11,219 70	
Connaught Dam	4,190 46	
Ferguson Highway	5.379 80	
Porquis Jct.-Timmins Road	2,300 69	
Other Roads, Sundry Expenditure	2.293 88	
		25.384 53

District No. 6. Cochrane. ($38,487.43)

Engineer D. A. Maciver, Cochrane.

Cochrane-Hearst Road	16,867 65	
Cochrane-Norembega Road	4,194 86	
Ferguson Highway	871 48	
Gardiner Road	1,408 95	
Other Roads. Sundry Expenditure	15,144 49	
		38,487 43

District No. 7. Fort William. ($51,792.62)

Engineer E. Smith, Fort William.

Dog Hole Bay-Pickle Crow Mine Road	2.781 21	
Geraldton-Little Long Lac Road	6.332 21	
Geraldton-Nipigon Road	8,779 00	
Jellicoe-Sturgeon River Mines Road	7,596 57	
Long Lac-Nipigon Road	13,123 59	
Shebandowan-Ardeen Mine Road	7,458 22	
Other Roads. Sundry Expenditure	5,721 82	
		51,792 62

District No. 8. Kenora. ($557.942.32)

Engineer E. A. Kelly, Kenora.

Eagle River Bridge	4,547 29	
Heenan Highway	458,759 60	
Kenora-Red Lake Survey	15.968 76	
Pellatt Road	5.818 74	
Quibell-Red Lake Survey	7,519 39	
Rowan Lake-Heenan Highway Survey	2,135 76	
Sioux Lookout-Dinorwic Road	44,995 53	
Sioux Lookout-Hudson Road	2.887 92	
Other Roads. Sundry Expenditure	15,309 33	
		557,942 32

District No. 9. Fort Frances. ($32.240.90)

Engineer G. H. Lowry, Fort Frances.

Arbor Vitae Road	4.196 33	
Fort Frances-Rainy River Road	10,586 08	
Heenan Highway	12.332 17	
Other Roads. Sundry Expenditure	5.126 32	
		32.240 90

District No. 10. Blind River. ($47.928.66)

Engineer R. A. McAllister, Blind River.

Chapleau-Iron Bridge Road	1.545 50	
Crystal Falls Road	1.645 40	
Dunn Valley Road	1.018 63	
Espanola-Little Current Road	2.489 68	
Little Current-Gore Bay Road	1.293 90	
Point Aux Pins Road	2.360 20	
Second Line, Korah	1.177 40	
Wharncliffe Road	18.748 20	
Other Roads. Sundry Expenditure	17.649 75	
		47.928 66

District No. 11. Parry Sound. ($214,489.85)

Engineer R. E. Richardson, Parry Sound.

Falkenburg-Rosseau-Parry Sound Road	50,150 15	
Ferguson Highway	120,824 93	
Parry Sound-Sudbury Road	41,636 68	
Other Roads, Sundry Expenditure	1,878 09	
		214,489 85

District No. 12. Kinmount. ($160,873.89)

Engineer T. C. Swartman, Kinmount.

Bobcaygeon-Minden-Kinmount Road	11,600 78	
Buckhorn Road	8,668 21	
Burleigh Falls-Apsley-Bancroft Road	12,439 15	
Haliburton-Eagle Lake-Redstone Road	88,512 56	
Minden-Haliburton Road	6,126 92	
Monck Road	3.329 56	
Rosedale-Minden-Dorset Road	10.794 10	
Other Roads, Sundry Expenditure	19,402 61	
		160,873 89

District No. 13. Barry's Bay. ($68,799.82)

Engineer J. B. Whitton, Barry's Bay.

Calabogie-Lanark Boundary Road	5,531 95	
Chaffey's Lock-Middle Road	1,874 15	
Combermere-Barry's Bay-Pembroke Road	19,664 51	
Griffith-Golden Lake Road	4.724 73	
Killaloe-Round Lake Road	4,799 56	
Lake Dore-Whitney Road	23,729 71	
Other Roads, Sundry Expenditure	8,475 21	
		68,799 82

District No. 14. Madoc. ($55,607.71)

Engineer C. F. Szammers, Madoc.

Addington Road	33,664 59	
Maynooth-Combermere Road	2,836 46	
Sharbot Lake-Lavant Road	7,416 73	
Other Roads, Sundry Expenditure	11,689 93	
		55,607 71
Norfolk County		839 34
Rondeau Provincial Park		1,070 76
General Expense Account		10.207 58
Totals		$1,675,117 75

UNEMPLOYMENT RELIEF — SPECIAL HIGHWAY PROJECTS. ($944,952.20)

District No. 1. Huntsville. ($66,618.41)

Engineer E. J. Hosking, Huntsville.

Bracebridge-Dorset Road	$11,168 93	
Ferguson Highway	20,384 07	
Gravenhurst-Bala-Parry Sound Road	35,065 41	
		$66,618 41

District No. 2. North Bay. ($227,801.55)

Engineer C. Tackaberry, North Bay.

Dafoe Hospital Road	39,857 42	
Dwight-Algonquin Park-Whitney Road	64,897 82	
Ferguson Highway	6.359 53	
Mattawa-Temiskaming Road	30,513 50	
North Bay-Temiskaming Road	86.173 28	
		227.801 55

District No. 4. New Liskeard. ($4,282.00)

Engineer V. H. Longstaffe, New Liskeard.

Ferguson Highway	4,282 00	4.282 00

District No. 6. Cochrane. ($24,172.52)		
Engineer D. A. Maciver, Cochrane.		
Cochrane-Hearst Road	24,172 52	24,172 52
District No. 7. Fort William. ($69,300.24)		
Engineer E. Smith, Fort William.		
Dawson Road	69,300 24	69,300 24
District No. 8. Kenora. ($36,244.43)		
Engineer E. A. Kelly, Kenora.		
Sioux Lookout-Dinorwic Road	36,244 43	36,244 43
District No. 10. Blind River. ($83,805.75)		
Engineer R. A. McAllister, Blind River.		
Little Current-South Bay Mouth Road	2,753 15	
Trans-Canada Highway	81,052 60	
		83,805 75
District No. 11. Parry Sound. ($253,661.56)		
Engineer R. E. Richardson, Parry Sound.		
Ferguson Highway	180,646 20	
Parry Sound-Sudbury Road	73,015 36	
		253,661 56
District No. 13. Barry's Bay. ($18,891.73)		
Engineer J. B. Whitton, Barry's Bay.		
Combermere-Barry's Bay Road	18,263 99	
Dwight-Algonquin Park-Whitney Road	627 76	
		18,891 75
District No. 14. Madoc. ($160,173.99)		
Engineer C. F. Szammers, Madoc.		
Belleville-Bancroft Road	160,173 99	160,173 99
Totals		$944,952 20

UNEMPLOYMENT RELIEF—MINING ROAD PROJECTS. (515,710.45)

District No. 3. Sudbury. ($11,441.58)		
Engineer A. M. Mills, Sudbury.		
Gogama-Three Duck Lake Road		$11,441 58
District No. 4. New Liskeard. ($90,930.43)		
Engineer V. H. Longstaffe, New Liskeard.		
Afton Mine Road	$10,537 78	
Cunipteau Mine Road	5,121 04	
Elk Lake-Matachewan Road	19,910 94	
Gowganda-Shining Tree Road	55,360 67	
		90,930 43
District No. 5. Matheson. ($22,512.86)		
Engineer H. R. Phipps, Matheson.		
Bidgood Mine Road	5,230 51	
Consolidated Smelters. Road	990 40	
Delnite Mine Road	5.682 31	
Prestone East Dome Mine Road	2,409 61	
Ramore-Ross Mine Road	8.200 03	
		22,512 86
District No. 7. Fort William. ($235,854.93)		
Engineer E. Smith, Fort William.		
Ardeen Gold Mine Road	4.350 54	
Beardmore-Sand River Road	44,017 80	
Geraldton-Hardrock Gold Mine Road	3,104 84	
Geraldton-Little Long Lac Road	29,184 29	
Hutchison Lake Road	2,799 30	
Obonga Lake Road	23,972 82	
Pickle Crow Mine Project	121.182 90	
Valora-Fish Siding-Sturgeon Lake Road	7.242 44	
		235,854 93

District No. 8. Kenora. ($120,529.86)

Engineer E. A. Kelly, Kenora.

Clarke Gold Mine Road	1,688 39	
Goldpines-Womans Lake Road	80,671 05	
Red Lake-Goldshore Mine Road	13,967 96	
Red Lake-Madsen Mine Road	9,624 34	
Wendigo Mine Road	14,578 12	
		120,529 86

District No. 10. Blind River. ($24,064.45)

Engineer R. A. McAllister, Blind River.

Goudreau-Lochalsh Road	6,016 30	
Michipicoten Area Roads	18,048 15	
		24.064 45

District No. 12. Kinmount. ($2,006.60)

Engineer T. C. Swartman, Kinmount.

Neptheline Mine Road	2,006 60

District No. 13. Barry's Bay. ($8,369.74)

Engineer J. B. Whitton, Barry's Bay.

Black Donald-Calabogie Road	8,369 74
Total	$515.710 45

COLONIZATION ROADS BRANCH

Salaries and Contingencies:		
Salaries	$6,473 00	
Contingencies	852 55	
		$7.325 55
By-Laws		162.074 11
Construction and Maintenance		136.297 16
Storage and Insurance		276 29
Engineering and Surveying		18,286 74
Total		$324.259 85

DEPARTMENT OF NORTHERN DEVELOPMENT

Statement of Revenue for Twelve Months Period Ended 31st March, 1937

	Capital	Ordinary	Total
Section 11 (b)—Roads.			
Sale of Equipment, Material, Supplies, Rentals, Refunds, etc.	$158,180 45	$16.977 70	$175,158 15
Note: Transferred as Expenditure Refund on Roads and Bridges Expenditure.			
Section 11 (f)—Seed Grain.			
Repayment of Principal	17,527 04	....	....
Interest	....	1,703 44	19,230 48
Section 11 (h)—Cattle Purchase.			
Repayment of Principal	1,232 55	....	....
Interest	....	405 51	1.638 06
Section 11 (d)—Assistance to Settlers; Feed Shortage.			
Repayment of Principal	310 54	....	....
Interest	....	134 90	445 44
Settlers' Loan Account.			
Repayment of Principal	27.225 04	....	....
Interest	....	16,325 54	43,550 58
	$204.475 62	$35.547 09	$240.022 71

Unemployment Relief:		
Proportion Repayments by Federal Government:		
On acct. prior to April 1st, 1936	$2,170,345 16	....
On acct. Current Fiscal Year	1,689,661 14	$3,860,006 30
Sale of supplies, rental and sale of equipment	45,607 03	45,607 03
	$3,905,613 33	$3,905,613 33

DEPARTMENT OF NORTHERN DEVELOPMENT

Assets—31st March, 1937

	Principal	Accrued Interest	Totals
Notes Outstanding.			
Section 11 (d)—Feed Shortage	$57,253 95	$40,942 54	$98,196 49
Section 11 (f)—Seed Grain	101,484 45	59,900 21	161,384 66
Section 11 (f)—Agricultural Implements	16.261 77	11,319 68	27,581 45
Section 11 (h)—Cattle Purchase	14,952 51	2,754 94	17,707 45
	$189.952 68	$114,917 37	$304,870 05
Special Warrant—Seed Grain	30,587 09	779 21	31,366 30
	$220,539 77	$115,696 58	$336,236 35
Settlers' Loan Account.			
Loans Outstanding	712,957 42	157,378 76	870,336 18
	$933,497 19	$273,075 34	$1,206,572 53

H. J. Armstrong,
Accountant.

OFFICE OF THE SETTLERS' LOAN COMMISSIONER

Honourable T. B. McQuesten, K.C., B.A., LL.B.,

Minister of Highways,
Minister charged with the Administration of the
Department of Northern Development, Ontario.

Honourable Sir:

Attached hereto is a copy of the Financial Statement bringing the accounts to the end of the Fiscal Year ending March 31st, 1937.

The collections have been a little more satisfactory than in the past, and I am of the opinion that conditions throughout the North have somewhat improved and that collections for the Fiscal Year following this report will show a considerable increase.

This report is the last which will be handed into the Department of Highways as the Commission now comes under the jurisdiction of the Department of Agriculture.

Yours truly,

J. O. Fraser,
Commissioner.

STATEMENT OF LOANS ISSUED

To March 31st, 1937

Total Number of Applications received:			
To March 31st, 1936		10,542	
To March 31st, 1937		20	
			10,562

Loans

Loans Issued:			
To March 31st, 1936		5,827	
To March 31st, 1937		Nil	
			5,827
Amount Granted			$1,932,487 10
Average Loan per Settler			331 64
Amount Applied for			4,103,191 00
Number of Loans issued	5,827		
Number of Loans outstanding	2,924		
Number of Loans paid in full	2,903		

STATEMENT OF LOANS TO CREAMERIES AND OTHER LIKE ASSOCIATIONS

INCLUDED IN THE ABOVE STATEMENT TO MARCH 31ST, 1937

Applications and Loans

	Amount Granted	Amount Owing
The Sudbury Dairy Ltd.	$24,000 00	Nil
The Kenora Dairy Co-operative Association Ltd.	13,000 00	Nil
Producers Co-Operative Creamery Co. Ltd., La Vallee, Ont.	3,500 00	$600 00
The Matheson Co-Operative Dairy Co. Ltd.	7,530 00	Nil
The Cochrane Co-Operative Dairy Co. Ltd.	7,830 00	Nil
Northern Co-Operative Co. Ltd., Rydal Bank, Ont.	5,000 00	3,000 00
The Thunder Bay Co-Operative Dairy Ltd.	18,600 00	10,030 00
Fort Frances Creamery Co. Ltd., Fort Frances, Ont.	5,000 00	3,250 00
	$84,460 00	$16,880 00

PAYMENTS ON ACCOUNT OF INTEREST

	Accrued Interest Due	Interest Received	Per Cent.
Loans to Settlers	$627,359 19	$471.737 48	....
Loans to Creameries	23.847 58	22.090 53	....
Total	$651.206 77	$493,828 01	72.7

PAYMENTS ON ACCOUNT OF PRINCIPAL

	Payments on Principal Due	Principal Received	Per Cent.
Loans to Settlers	$1,570.494 28	$1,151.829 68	....
Loans to Creameries	65.876 66	67,700 00	....
Total	$1,636.370 94	$1.219.529 68	74.5

TOTAL

	Payments Due	Payments Received	Per Cent.
Loans to Settlers	$2,187.853 47	$1,623.567 16	....
Loans to Creameries	89,724 24	89,790 53	....
Total	$2.287.577 71	$1.713.357 69	74.9

Charges	$651,206 77	$1,932,487 10
Payments	493,828 01	1,219,529 68
Outstanding	$157,378 76	$712,957 42
Settlers'	$155.621 71	$696,077 42
Creameries	1,757 05	16.880 00

STATEMENT OF LOANS ISSUED BY YEARS

Year	Amount Issued	Written Off	Payments Received	Balance Outstanding
To Oct. 31st, 1916	$23,889 69	$1,943 55	$19,833 82	$2.112 32
To Oct. 31st, 1917	360,078 88	4.780 70	328,351 41	26,946 77
To Oct. 31st, 1918	34,817 43	78 50	33,328 09	1,410 84
To Oct. 31st, 1919	35.470 00	257 15	30.643 49	4.569 36

To Oct. 31st, 1920	55,130 00	8,234 60	42,277 57	4,617 83
To Oct. 31st, 1921	105,859 00	5,010 93	80,816 01	20,032 06
To Oct. 31st, 1922	237,255 00	6,213 56	190,877 90	40,163 54
To Oct. 31st, 1923	156,410 00	6,997 85	110,727 35	38,684 80
To Oct. 31st, 1924	86,965 00	1,971 00	60,828 39	24,165 61
To Oct. 31st, 1925	109,560 00	9,816 61	63,432 87	36,260 82
To Oct. 31st, 1926	72,035 00	295 90	45,366 63	26,372 47
To Oct. 31st, 1927	58,005 00	1,269 65	29,371 84	27,363 51
To Oct. 31st, 1928	56,925 00	1,820 00	26,380 85	28,724 15
To Oct. 31st, 1929	66,355 00	160 00	27,987 99	38,256 71
To Oct. 31st, 1930	71,050 00	260 00	17,055 09	53,734 91
To Oct. 31st, 1931	120,535 00	410 00	23,398 29	96,726 71
To Oct. 31st, 1932	107,370 00	160 00	18,316 03	88,893 97
To Oct. 31st, 1933	81,430 00	160 00	13,918 74	67,351 26
To Oct. 31st, 1934	55,400 00	160 00	5,042 89	50,197 11
To Oct. 31st, 1935	12,975 00	....	936 93	12,038 07
To Mar. 31st, 1936	24,972 10	....	637 50	24,334 60
To Mar. 31st, 1937	....	....	....	....
Totals	$1,932,487 10	$50,000 00	$1,169,529 68	$712,957 42

STATEMENT OF LOANS ISSUED AND OUTSTANDING

District	Issued		Outstanding		
	No. of Loans	Issued	No. of Loans	Unpaid Principal	Unpaid Interest
Algoma	464	$155,330 00	341	$97,526 39	$16,823 52
Manitoulin	15	6,000 00	3	400 95	46 57
Nipissing	345	117,960 00	200	51,479 17	11,179 29
Sudbury	480	196,780 00	304	81,870 55	12,709 89
Kenora	513	172,390 00	219	42,031 85	9,634 47
Rainy River	439	146,450 00	204	52,887 28	9,596 07
Temiskaming	2,389	743,802 10	1,052	235,262 22	56,122 86
Thunder Bay	1,181	393,625 00	600	142,388 68	36,589 30
Parry Sound	1	150 00	1	108 00	....
	5,827	$1,932,487 10	2,924	$703,955 09	$152,701 97
Suspense—Bad Debts	....	....	....	9,002 33	4,676 79
	5,827	$1,932,487 10	2,924	$712,957 42	$157,378 76

TREASURY DEPOSITS

Interest	$16,324 79
Principal	27,225 04
Exchange	75
Total	$43,550 58

SUMMARY OF RECEIPTS TO MARCH 31st, 1937

	Payments on Principal	Interest Payments	Refund, Cost of Certificate of Search	Over-payment Refund	Exchange	Mis-cellaneous
1936-7.	$1,192,304 64 27,225 04	$477,503 22 16,324 79	$279 54	$93 07	$48 69 75	$861 80
	$1,219,529 68	$493,828 01	$279 54	$93 07	$49 44	$861 80

SETTLERS' LOAN COMMISSIONER

STATEMENT OF EXPENDITURES — ENDING MARCH 31ST, 1937

Salaries—		
Jack, F. M., Clerk Stenog., Group 1	$1,198 11	
MacLean, A. E., Head Clerk, Group 2	2,484 97	
Treasurer of Ontario, Assessment	16 92	
		$3,700 00
Office Expenses—		
Staff Meals re Overtime	$22 50	
Telegrams	2 25	
Repairs	1 25	
Stationery and Printing	220 02	
Cost of Search	9 20	
Legal Expense	8 03	
		263 25
Outside Expense—		
Alexander, J. A.	$47 37	
Bastien, J. A.	26 11	
Gingras, A.	3 35	
Marchildon, J. P.	3 51	
Trainor, W. J.	5 00	
Lorrie, L.	89 50	
Van Horne, L. E.	27 97	
Widdifield, F. W.	24 76	
		227 57
		$4,190 82

SUMMARY OF EXPENSES TO MARCH 31st, 1937

	To March 31st, 1936	Year Ending March 31st, 1937	Total
Salaries	$170,766 44	$3,700 00	$174,466 44
Travelling Expenses	1,259 85		1,259 85
Office Expenses	16,512 88	263 25	16,776 13
Outside Expenses	10,210 52	227 57	10,438 09
Bad Debts	50,000 00		50,000 00
	$248,749 69	$4,190 82	$252,940 51

SUMMARY

REVENUE, MARCH 31ST, 1936, TO MARCH 31ST, 1937

	Ordinary	Capital
Seed Grain	$1,703 44	$17,527 04
Cattle Purchase	405 51	1,232 55
Feed Shortage	134 90	310 54
	$2,243 85	$19,070 13
Deposited in Treasury		$21,313 98

ASSETS

Agricultural Implements	$11,319 68	$16,261 77
Cattle Purchase	3,590 21	14,952 51
Feed Shortage	40,942 54	57,253 95
Seed Grain	59,900 21	101,484 45
	$115,752 64	$189,952 68

APPENDIX A

DEPARTMENT OF NORTHERN DEVELOPMENT—ANNUAL REPORT, 1936-1937

DIRECT EXPENDITURE 1936

Electoral District	Cutting and Burning New Road Miles	Side Brush Existing Road Miles	Stump and Grub Miles	Grading		Ditching	Gravelling				Clay Surfacing		Crushed Rock			Dragging	Culverts				Bridges											Excavation	
				New	Repair		New		Repairs												New			Replaced			Repaired			Painted		Earth	Rock
				Miles	Miles	Cu. Yds.	Length Miles	Cu. Yds.	Length Miles	Cu. Yds.	Length Miles	Cu. Yds.	Crushed Cu. Yds.	Hauled Cu. Yds.	Road Covered Miles	Miles	Wood	Stone	Concrete	Metal	Wood	Steel	Concr.	Wood	Steel	Concr.	Wood	Steel	Concr.	Wood	Steel	Cubic Yards	Cubic Yards
ALGOMA	0.25	112.00	0.35	25.25	83.25	1,271	55.40	5,765	69.35	4,261	7.00	1,566	....	....	....	30,317	55	1	....	23	4	....	....	2	....	....	37	2	1	....	....	3,613	4,147
COCHRANE NORTH	....	115.50	2.17	0.24	....	3,633	2.99	2,218	70.50	14,306	....	....	....	137	....	31,561	45	....	....	73	2	....	....	....	....	....	35	....	....	....	....	13,743	....
COCHRANE SOUTH	....	0.50	1.00	0.10	279.00	360	37.00	25,015	111.00	21,647	19.00	4,588	....	17,524	22.10	32,001	4	....	....	11	2	....	....	1	....	....	35	....	....	....	....	694	30
FORT WILLIAM	15.94	18.91	17.78	13.33	37.55	5,528	9.82	8,263	35.07	7,054	....	112	....	422	14.00	17,196	227	....	4	20	1	....	....	1	....	....	33	....	....	10	....	27,708	819
KENORA	14.81	36.06	9.60	3.47	171.00	3,236	6.28	3,110	39.28	8,052	4.03	1,534	....	....	....	42,407	50	....	....	34	4	....	....	....	....	....	34	....	....	2	....	10,503	840
MANITOULIN	0.30	22.75	4.05	15.25	20.00	5,520	42.05	9,621	31.00	7,969	1.75	608	....	....	....	14,673	21	8	....	8	....	....	....	1	....	....	7	....	1	....	....	761	3,035
MUSKOKA	....	3.50	0.20	....	3.00	4,293	29.97	11,375	193.87	4,813	8.88	2,139	....	1,062	4.07	14,061	28	2	6	18	....	....	....	....	....	....	....	....	....	....	....	1,434	3,188
NIPISSING	0.33	3.75	1.26	1.00	6.33	3,666	2.85	1,048	59.31	4,937	0.01	93	7,811	5,987	43.57	36,263	16	1	2	3	3	....	....	....	....	....	3	....	....	....	....	4,077	1,194
PARRY SOUND	0.02	18.18	0.02	0.56	....	1,638	2.83	1,596	162.42	36,514	8.36	1,353	10,383	10,056	15.51	50,082	48	3	....	22	3	....	....	....	....	....	10	1	....	....	3	22,140	5,303
PORT ARTHUR	5.16	119.18	9.81	4.66	100.00	3,951	6.87	6,314	6.11	11,431	0.50	1,320	....	....	....	10,961	144	5	....	7	....	....	....	2	....	....	11	....	....	7	....	6,927	905
RAINY RIVER	3.70	136.00	3.00	5.03	13.75	7,140	0.69	587	158.40	5,985	4.77	1,090	....	....	....	23,524	31	....	....	14	4	....	....	....	....	....	53	....	....	....	....	22,644	....
RENFREW NORTH	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	13,033	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
SAULT STE. MARIE	....	1.16	5.50	5.37	8.25	2,588	19.63	3,598	92.13	3,796	13.00	1,884	....	....	....	11,899	....	....	2	13	1	....	....	....	....	....	8	....	1	....	....	362	3,925
STURGEON FALLS	2.84	20.06	2.49	4.38	8.25	6,258	10.91	4,648	72.53	13,880	2.10	1,845	....	1,608	7.00	31,659	107	10	....	9	2	....	....	1	....	....	51	1	1	2	....	13,605	3,120
SUDBURY	0.25	0.50	....	....	32.00	1,997	....	....	107.60	10,355	10.90	1,817	....	1,621	3.75	38,794	39	1	1	12	....	....	....	....	....	....	....	....	....	....	....	458	680
TEMISKAMING	0.56	3.36	0.50	1.00	....	1,791	52.00	7,937	52.08	19,806	1.10	490	....	700	2.90	40,211	11	....	....	14	....	....	....	5	....	....	17	....	....	2	....	7,987	298
TOTALS	44.16	611.41	57.73	79.64	762.38	52,870	279.29	91,095	1260.65	174,808	81.40	20,439	18,194	39,117	112.90	438,642	826	31	15	281	26	....	....	13	....	....	334	4	4	23	3	136,656	27,484

MISCELLANEOUS WORKS

Pavements Constructed	Miles
Crushed Stone Retread	15.0
Bituminous Gravel	20.2

New Road Constructed, Miles	28.05
New Road Gravelled	9.25
New Gravel on old Roads	421.56

Pavement Repairs	68.4

Dust Preventive, Miles	464.3
Calcium Chloride	

Surfacing other than Gravel or Stone Material, Cinders, Miles	2.0

Curves on Old Roads

	No.	Miles
Built	7	0.32
Banked	4	0.17

Repairs to Roads	Miles
Widened, 4 feet	23.84
Shoulders, 4 feet	139.93
Rip Rap, cu. yds.	20,654

Stock piles	Cu. Yds.
Gravel	24,883
Crushed stone	7,500
Sand	460

	Cut. Ac.	Burned Miles
Brush	381.80	150.00
Grass and Weeds	3969.00	473.75

Corduroy Laid, Miles	9.01
Corduroy Removed, Miles	0.60

Ditch Cleaned, Miles	443.00
Offtake Built	6.66
Ditch Excavation, Miles	32.90
Spread	32.00
Creeks cleaned out	9.29

Culverts	Number
Cleaned of Ice and Snow	3,454
Cleaned of Debris	1,028
Repaired	536

Cable used	16,124 ft.
Highway Guard	31,166 ft.
Guard Rail Erected	33,350 ft.
Guard Rail Repaired	12,510 ft.
No. of Posts used	2,790
No. of Posts painted	5,853
Trimmed	938

Bridges protected from ice	7
Bridges torn down	18

Piles driven	246

Standard Road Signs Erected	1,291
Standard Road Signs Repaired	504
Standard Road Signs Repainted	1,360
Lettered Road Signs Erected	1,271
River Signs Erected	122
Reflector Signs Erected	2

Ferry Trips	59,731
Ferry, Miles	36,292

	F. B. M.
Lumber purchased	763,716
Lumber on hand	50,634

	No.	Miles
Road Traverse Surveys	68	484.43
Curve surveys	11	0.70
Drainage	55	53.00
Railway Crossings	11	
Bridges	17	
Gravel Pits	23.21 Acres	

Machinery Overhauled	
Engines	20
Trucks	23
Tractors	27
Passenger Cars	10
Power Maintainers	31

Power Graders	30
Horse Drawn Graders	14
Snow Plows	8
Pile Drivers	1
Stone Crushers	1
Cement Mixers	4

Buildings Constructed	5
Buildings Moved	1
Camps Repaired	1
Camps Torn Down	4

Piling Purchased	2,000 l.f.
Cedar Posts Peeled	245
Stumps Removed from Road Bed	1.00 M.
Overburden Removed from Gravel Pit	1,504 cu. yds.
Raking Stone off Road	45.02 M.
Roads Snowplowed	173.46 M.
Roads Sanded	146 M.
Stream Tunnel Constructed	50 ft.

1 Scow, 21 ft. x 14 ft. x 3 ft., Built and Tarred.

New Sluice, New Rollers, Stop Logs Constructed for Dam.

Nine and one half Carloads Equipment Hauled from Camps to Warehouse.

New Machinery	
Truck and Snow Plow	1
Snow Plows	2
Gravel Loading Hopper with Dump Cart, Railway, etc.	1
Ten Ton Floor Jack	1
Pneumatic Jacks	2
Electric Belt Driven Circular Saw	1
Set of Reseating Valve Stones	1
Blow Torches	2

Snow Fence Erected	35.67 M.
Snow Fence Burned	12.51 M.
R. O. W. Fence Erected	0.80 M.
R. O. W. Fence Moved	0.05 M.

APPENDIX B 1

DEPARTMENT OF NORTHERN DEVELOPMENT—ANNUAL REPORT, 1936-1937

NORTHERN DEVELOPMENT AGREEMENTS 1936

Electoral District	Cutting and Burning New Road Miles	Side Brush Existing Road Miles	Stump and Grub Miles	Grading		Ditching Cu. Yds.	Gravelling				Clay Surfacing		Crushed Rock			Drag-ging, Miles	Culverts				Bridges											Excavation	
							New		Repairs												New			Replaced			Repaired			Painted			
				New Miles	Repair Miles		Length Miles	Cubic Yards	Length Miles	Cubic Yards	Length Miles	Cubic Yards	Crushed Cubic Yards	Hauled Cubic Yards	Road Covered Miles		Wood	Stone	Concrete	Metal	Wood	Steel	Concr.	Wood	Steel	Concr.	Wood	Steel	Concr.	Wood	Steel	Earth Cubic Yards	Rock Cubic Yards
ALGOMA	3.62	6.30	2.00	1.12	82.00	3,447	8.50	1,972	84.04	11,475	4.92	479	....	....	....	67	79	3	28	3	....	....	....	3	....	....	9	....	....	....	....	1,290	239
COCHRANE NORTH	....	....	....	....	0.65	448	1.53	702	9.79	5,375	....	....	....	....	....	....	10	....	....	2	....	....	....	....	....	....	....	....	....	....	....	545	....
COCHRANE SOUTH	....	....	....	....	47.00	6,306	....	500	....	1,522	....	45	....	1,094	....	....	3	....	....	12	....	....	....	....	....	....	6	....	....	....	....	1,317	1,032
FORT WILLIAM	6.90	148.11	4.77	10.03	40.53	5,789	5.35	6,648	....	14,728	....	....	....	....	....	1,967	251	....	25	12	1	....	....	....	....	....	12	....	....	....	....	7,925	411
KENORA	1.00	14.16	0.90	1.04	8.85	3,728	0.39	252	12.29	2,217	2.10	1,066	....	....	....	380	76	13	....	3	....	....	....	....	....	....	....	....	....	....	....	1,714	82
MANITOULIN	....	19.34	0.96	0.30	5.35	1,810	12.02	1,267	111.64	12,582	0.60	296	....	....	....	1,336	30	23	....	2	8	....	1	....	....	....	15	....	....	....	....	185	908
NIPISSING	1.54	5.20	2.04	0.21	22.05	5,319	1.90	1,256	29.94	1,949	2.54	87	....	....	....	933	34	1	....	4	3	....	....	....	....	....	1	....	....	....	....	6,080	415
PORT ARTHUR	8.05	152.11	....	0.32	208.25	4,850	....	30	....	2,559	....	211	....	....	....	1,228	64	....	....	2	....	....	....	....	....	....	7	....	....	....	....	8,611	119
RAINY RIVER	5.50	116.90	5.20	5.06	20.41	23,719	4.37	2,433	155.90	22,448	1.82	1,437	....	....	....	3,835	92	....	10	5	....	....	....	....	....	....	8	....	....	....	....	808	....
SAULT STE. MARIE	0.63	19.98	2.73	2.00	150.50	899	2.50	1,328	27.45	6,771	1.75	200	....	752	8.00	28	12	....	31	5	6	....	....	2	....	3	7	....	....	....	....	3,160	23
STURGEON FALLS	....	23.91	0.50	0.87	5.85	2,118	6.02	532	27.82	9,332	0.32	306	....	....	....	1,253	116	4	....	1	3	....	....	....	....	....	11	....	....	....	....	1,047	160
SUDDURY	7.00	47.98	7.27	16.95	227.75	8,730	3.37	1,190	67.17	8,245	1.86	4,493	....	4,542	1.16	877	100	12	1	21	8	....	....	....	....	....	3	....	....	....	....	215	2,077
TEMISKAMING	1.00	14.00	4.25	3.25	178.30	7,260	6.00	1,478	365.20	21,838	1.35	668	....	25	0.10	276	41	....	....	18	2	....	....	1	....	....	18	....	....	....	....	4,553	612
TOTALS	35.24	567.99	30.62	41.15	997.49	74,423	51.95	19,588	891.24	121,041	17.26	9,288	....	6,413	9.26	12,180	908	56	95	90	31	....	1	6	....	3	97	....	....	....	....	37,450	6,078

Other Works and Remarks

Guard Rail Erected.........656 Lin. Ft.

APPENDIX B 2
DEPARTMENT OF NORTHERN DEVELOPMENT
REPORT APRIL 1st, 1936-MARCH 31st, 1937
COLONIZATION ROAD BYLAWS

Electoral District	Cutting and Burning New Road Miles	Side Brush Existing Road Miles	Stump and Grub Miles	Grading		Ditching Cubic Yards	Gravelling				Clay Surfacing		Crushed Rock			Dragging Miles	Culverts				Bridges											Excavation	
				New Miles	Repair Miles		New		Repairs		Length Miles	Cubic Yards	Crush Cubic Yards	Haul Cubic Yards	Road Covered Miles		Wood	Stone	Concrete	Metal	New			Replaced			Repaired			Painted		Earth Cubic Yards	Rock Cubic Yards
							Length Miles	Cubic Yards	Length Miles	Cubic Yards											Wood	Steel	Concrete	Wood	Steel	Concrete	Wood	Steel	Concrete	Wood	Steel		
ADDINGTON	....	102.50	....	40.50	698.50	1,152	5.12	636	199.00	21,634	4.75	479	....	....	....	95	139	17	6	.....	10	....	....	....	....	....	....	....	....	....	....	435	2,120
HALIBURTON	....	33.41	1.75	....	5.77	4,527	3.25	....	....	13,052	6.90	1,273	32	125	....	833	127	14	.....	1	1	....	....	....	....	....	1	....	....	....	....	1,532	3,050
HASTINGS EAST	....	1.50	0.25	3.25	108.68	1	6.25	2,765	42.37	5,706	15.50	248	....	1,457	4.13	....	21	2	2	6	....	....	....	....	....	....	3	....	....	....	....	30	....
HASTINGS WEST	2.75	3.00	....	0.50	114.75	1,071	6.06	494	14.40	9,846	2.81	1,241	2,603	2,603	7.50	180	66	.....	1	3	3	....	....	....	....	....	....	....	....	....	....	890	385
LANARK	....	1.00	....	....	13.50	40	0.50	232	3.67	1,639	....	....	....	....	....	....	9	.....	.....	3	....	....	....	....	....	....	....	....	....	....	....	200	....
LEEDS	....	1.98	....	....	89.37	1,010	0.37	181	34.00	3,709	0.25	43	....	....	....	55	1	26	.....	4	4	....	....	....	....	....	....	....	....	....	....	93	37
MUSKOKA	3.81	131.20	10.29	4.47	939.35	14,093	11.71	3,408	399.20	35,243	28.76	3,206	241	103	11.64	3,520	354	99	35	6	....	....	....	15	....	....	....	....	....	...	....	7,152	18,600
PARRY SOUND	2.80	197.00	1.50	4.00	127.00	5,675	2.00	985	202.00	35,015	14.81	676	....	....	....	5,639	413	19	18	13	....	....	....	....	....	....	24	....	....	....	....	7,379	1,709
PETERBOROUGH	0.5	1.65	.05	20.83	1.88	175	....	....	40.90	3,970	....	200	800	800	17.10	1,025	42	.....	.....	9	....	....	....	....	....	....	1	....	....	....	....	832	1,602
RENFREW NORTH	....	27.36	1.00	0.85	23.96	580	2.07	492	68.93	16,497	0.17	132	....	421	0.68	1,315	41	.....	3	9	....	....	....	....	....	....	....	....	....	....	....	377	37
RENFREW SOUTH	....	3.75	0.04	2.00	52.50	66	....	....	26.87	6,086	....	....	....	421	1.00	41	58	.....	.....	3	....	....	....	....	....	....	....	....	....	....	....	53	115
SIMCOE EAST	1.5	5.5	2.00	14.75	4.84	1,175	....	....	39.50	16,954	....	....	....	3,238	9.00	4,245	1	.....	9	48	....	....	....	....	....	....	....	....	....	....	....	1,835	....
SIMCOE CENTRE	....	4.30	....	.15	.88	792	....	....	11.83	5,792	....	....	....	....	....	....	.....	.....	3	4	....	....	....	....	....	....	....	....	....	....	....	664	136
VICTORIA	....	17.11	....	....	....	205	....	....	....	13.207	.20	120	3,846	3,785	....	781	4	8	2	12	....	....	....	....	....	....	2	....	....	....	....	381	94
TOTALS	9.56	526.31	16.88	91.30	2180.98	30,562	37.33	9,193	1082.67	188,350	74.15	7,618	7,522	12,953	51.05	17,729	1,276	185	79	121	18	....	....	15	....	....	31	....	....	....	....	21,853	27,885

APPENDIX C

DEPARTMENT OF NORTHERN DEVELOPMENT-REPORT, Apr. 1, 1936-Mar. 31, 1937

UNEMPLOYMENT RELIEF – GENERAL WORK

Electoral District	Cutting and Burning Road	Side Brushing Existing Road	Stump and Grub	Grading		Ditching	Gravelling				Clay Surfacing		Crushed Rock			Dragging, Miles	Culverts				Bridges											Excavation	
							New		Repairs												New			Replaced			Repaired			Painted			
	Miles	Miles	Miles	New Miles	Repairs Miles	Cu. Yds.	Length Miles	Cubic Yards	Length Miles	Cubic Yards	Length Miles	Cubic Yards	Crushed Cubic Yards	Hauled Cubic Yards	Road Covered Miles		Wood	Stone	Concrete	Metal	Wood	Steel	Concr.	Wood	Steel	Concr.	Wood	Steel	Concr.	Wood	Steel	Earth Cubic Yards	Rock Cubic Yards
ADDINGTON	0.56	7.00	0.53	2.32	0.26	463	3.10	5,948	10.65	876	3.07	29,243					5	2		5												9,848	9,744
ALGOMA	0.80	11.10	1.90	1.35	14.75	1,818	31.75	4,022			2.30	288				120	2																140
COCHRANE NORTH			3.58	6.35	0.10	1,841	4.77	3,176	33.75	13,805							11			4												17,580	
COCHRANE SOUTH	4.60		4.60					1,618												2												5,368	
FORT WILLIAM	0.88	7.00		1.65		1,510	7.25	3,451	4.25	4,573	1.00	1,417				34	10															160	
HALIBURTON		49.90		0.25	0.28	260			8.36	4,023				4,938	12.70	3,851					1											1,993	196
HASTINGS EAST						636	0.75	432								64																574	2,572
KENORA	5.48		5.82	24.00			15.26	30,980	0.16	312	34.49	28,558				29	86			39	3						5					133,530	98,419
LANARK	0.10		0.10			493	0.32	290												3												2,280	580
LEEDS		4.00		5.00	4.00	2,000	6.00	894		15	0.50	80				6		7														150	
MANITOULIN		2.30	0.35	16.30	3.00	265	8.80	1,963	4.00	331	1.35	1,591				8	9			2				1								373	394
MUSKOKA	0.98	0.75	2.47	4.80	4.50	2,132	8.04	6,434	4.20	448	1.40	1,621				160	8	1		11												3,923	22,672
NIPISSING	0.61	2.53	4.75	1.34	6.50	3,258	20.93	10,023	41.70	2,737	3.36	1,494				610	1			7	1			3						2		23,344	15,164
PARRY SOUND	0.98		2.37	6.50		4,200	10.70	10,393			2.50	5,750	18,420	18,420	7.13	320	18	4		5												81,433	15,088
PETERBOROUGH	0.15	0.40	2.65	2.86	8.25	840	0.27	478	10.70	2,956	5.34	2,509	1,716	2,810	5.30	1,179	10	1		21				1								13,021	8,777
PORT ARTHUR	1.70		3.80	10.30		105	3.00	3,582									7															12,828	3,546
RAINY RIVER	0.10	42.00	0.10	2.80	5.00	6,385	4.91	5,862	54.60	5,718	8.73	2,684				94	8			14												23,840	
RENFREW NORTH	2.90	75.00	1.95	2.62	7.00	296	14.20	3,435	4.00	754	1.05	581				505	3			11							1					24,338	3,910
RENFREW SOUTH	1.00	28.40	0.35	6.63	6.08	2,940	13.84	4,447	11.75	540	3.67	1,084				1,170	2	2		18												10,269	1,065
SAULT STE. MARIE		33.25			3.75	620	7.50	3,542	2.88	1,494	3.00	13					1			2													120
SIMCOE EAST			0.50	0.32								250				696																369	983
STURGEON FALLS	2.99	2.22	3.83	5.73	0.10	904	4.13	1,960	1.14	304	0.09	68				43	7				8			3			7			4		8,740	8,281
SUDBURY	0.20		1.70	0.09	0.08	1,200	1.30	859	16.87	4,973	9.04	2,944		427		3	3			2												150	50
TEMISKAMING	9.95	13.95	8.05	1.41		18,898	27.13	6,881	16.10	406	1.21	3,582		622	1.55		22			11				5								18,922	698
VICTORIA		20.00		1.22	0.10	570							448	1,042	1.13	1,228	8	1		5												3,549	594
TOTALS	33.98	299.80	49.40	103.84	63.75	51,634	193.95	110,670	225.11	44,265	82.10	83,757	20,584	28,259	27.81	10,120	221	18		162	13			13			13			6		396,582	192,993

MISCELLANEOUS WORKS

	Miles
Crushed Stone Retread Pavements	7.13
New Road Constructed	16.42
New Road Gravelled	18.34
New Gravel on old Roads	109.64
Dust Preventive Material Calcium Chloride	25.73
Cinder Surfacing	5.0

Curves on old Roads

	No.	Lgth. of Miles
Built	4	0.4
Banked	4	0.4

Roads Widened, Width 4 ft.	2.25 miles
Rip Rap—Cu. yds.	3,397
Gravel Stock Piles—cu. yds.	9,289

	Cut. Ac.	Burned Miles
Brush	36	18
Grass and Weeds.	48	24

Corduroy Laid	0.04 mi.
Corduroy Removed	0.27 mi.

Drainage	Miles
Ditch Cleaned	4.64
Offtake Built	0.68

Ditch Excavation	7.32
Spread	9.57
Creeks Cleaned Out	2.02
Weeping Tile	1051
Culverts Cleaned of Ice and Snow	46
Culverts Cleaned of Debris	3
Repaired	9

Guard Rail

Cable Used	8,225 ft.
Highway Guard	1,972 ft.
Guard Rail Erected	11,137 ft.
Guard Rail Repaired	35 ft.
No. of Posts Used	3,217
No. of Posts Painted	1,147

Bridges Protected from Ice	1
Bridges Torn Down	1
Piles Driven	86
Concrete Piers for Steel	
Standard Road Signs Erected	24
Lumber Purchased	95,261 F.B.M.
Road Traverse Surveys, No. 16,	209.45 M.
Drainage	3.5 M.
Railway Crossings, No. 3	5.65 M.
Gravel Pits	9.7 acres
Right of Way	83.2 acres
Bridge, No. 1	

3 Camp Sites Cleared.

Remarks:

Cleared, Graded and Gravelled 1.0 acre Parking Space at Canoe Lake Portage for Lands and Forests.
Raking Stones—59.16 miles.
Fencing Erected—11 rods.
1 Cattle Pass, Stone Walls, Timber Top Built.
Cross Waying—0.25 acres.
Weed Cutting—44.70 miles.
Cut, Peeled and Trimmed—1,000 Guard Rail Posts.
Repairs to Connaught Dam.

APPENDIX D

DEPARTMENT OF NORTHERN DEVELOPMENT-REPORT, Apr. 1, 1936-Mar. 31, 1937
TRANS-CANADA HIGHWAY
UNEMPLOYMENT RELIEF

Electoral District	Cutting and Burning New Road Miles	Side Brushing Existing Road Miles	Stump and Grub Miles	Grading		Ditching	Gravelling				Clay Surfacing		Crushed Rock			Drag-ging, Miles	Culverts				Bridges											Excavation	
							New		Repairs												New			Replaced			Repaired			Painted			
				New Miles	Repair Miles	Cu. Yds.	Length Miles	Cubic Yards	Length Miles	Cubic Yards	Length Miles	Cubic Yards	Crushed Cubic Yards	Hauled Cubic Yards	Road Covered Miles		Wood	Stone	Concrete	Metal	Wood	Steel	Concr.	Wood	Steel	Concr.	Wood	Steel	Concr.	Wood	Steel	Earth Cubic Yards	Rock Cubic Yards
ALGOMA	3.00	4.00	3.00	4.00	....	8,045	74.35	29,891	8.00	12,600	0.75	2,982	....	36	....	652	6	....	....	47	....	....	....	....	....	....	5	....	....	....	....	68,139	19,928
FORT WILLIAM.....	....	36.01	....	3.75	25.65	2,096	0.25	822	2.25	4,251	4.49	6,747	....	542	....	1,953	2	....	2	4	....	....	....	....	....	....	....	....	....	....	....	10,770	511
KENORA...........	9.37	47.13	2.88	31.20	2.00	8,176	43.68	87,351	224.50	17,763	216.10	59,829	48	48	....	....	14	....	....	96	...	....	....	....	....	....	3	....	....	....	....	224,234	78,169
NIPISSING.........	0.49	26.00	0.20	....	....	1,060	6.60	6,735	37.90	7,190	11.25	1,798	8,590	8,590	15.00	....	3	....	....	7	....	....	....	....	....	....	....	....	....	1	....	39,850	819
PORT ARTHUR.....	14.08	57.11	25.40	116.63	4.00	1,932	9.75	28,033	....	2,789	1.04	1,933	....	431	0.10	....	106	....	....	97	7	1	....	5	....	....	....	....	....	....	....	113,796	519,886
RENFREW NORTH..	....	....	....	....	....	....	7.00	1,402	19.20	7,290	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	145	....
SAULT STE. MARIE	1.20	14.43	1.20	10.00	1.00	11,900	0.63	1,059	0.50	57	0.13	18	....	....	....	....	1	....	....	16	....	....	....	....	....	....	....	....	....	....	....	27,019	35,007
STURGEON FALLS	....	....	....	....	2.00	7,230	14.00	3,264	40.10	12,312	18.68	2,332	....	....	....	98	5	....	....	7	....	....	....	1	....	....	3	....	....	....	....	623	362
SUDBURY	3.30	4.00	0.34	3.30	....	1,246	....	....	28.00	10,618	5.00	1,116	....	....	....	860	22	3	3	43	....	....	....	....	....	....	....	....	....	....	....	54,248	20,635
TOTALS.......	31.44	188.68	33.02	166.88	34.65	41,685	156.26	158,575	360.45	74,870	257.44	76,755	8,638	9,647	15.10	3,563	159	3	5	317	7	1	....	6	....	....	11	....	....	1	....	538,824	675,317

MISCELLANEOUS WORKS

New Gravel on old Roads.....10.60 miles

Dust Preventive
Material—Calc. Chloride...112.5 miles

Rip Rap—cu. yds................11,384
Gravel Stock Piled........5,330 cu. yds.
Corduroy Removed.............118 feet

Ditch Cleared...............11.73 miles
Ontake Built............... 0.02 miles

Culverts Cleaned of Ice and Snow...178
Culverts Cleaned of Debris.......... 58
Culverts Repaired.................. 36

Piles Driven......................184
Lumber Purchased.........7,673 F.B.M.

Guard Rail Cable Used.........1,098 ft.
Highway Guard................ 265 ft.
Guard Rail Erected............ 819 ft.
Guard Rail Repaired........... 325 ft.
No. of Posts Used..................128
No. of Posts Painted................ 45

Standard Road Signs Erected........ 31
Standard Road Signs Repaired......150
Standard Road Signs Repainted..... 30
River Signs Erected............... 10

Road Traverse Surveys, No. 9...85.39 M.
Drainage.................... 3.00 M.
Railway Crossings..................2

Sanding Road.................. 7 M.
Raking Stones................259.8 M.
Lay 9600 ft. Asphalt Plank............
4,320 lbs. compound.

APPENDIX E

DEPARTMENT OF NORTHERN DEVELOPMENT—REPORT, Apr. 1st 1936 - Mar. 31st, 1937

Direct Grants – Colonization Roads

Electoral District	Cutting and Burning New Road	Side Brushing Existing Road	Stump and Grub	Grading		Ditching	Gravelling				Clay Surfacing		Crushed Rock			Drag-ging,	Culverts				Bridges											Excavation	
							New		Repairs												New			Replaced			Repaired			Painted		Earth	Rock
	Miles	Miles	Miles	New Miles	Repair Miles	Cu. Yds.	Length Miles	Cubic Yards	Length Miles	Cubic Yards	Length Miles	Cubic Yards	Crushed Cubic Yards	Hauled Cubic Yards	Road Covered Miles	Miles	Wood	Stone	Concrete	Metal	Wood	Steel	Concr.	Wood	Steel	Concr.	Wood	Steel	Concr.	Wood	Steel	Cubic Yards	Cubic Yards
ADDINGTON					2.00	780	4.12	791	85.50	5,180	3.30	850				2,935	3			2												2,283	1,400
HALIBURTON		11.61			1.06	1,095	25.37	2,073			0.08	1,003	985	403		6,074	18	4		4							1					1,092	1,644
HASTINGS E.	0.31	2.00		0.35	3.22	3,783	32.92	9,613	50.90	5,105	2.57	1,391	1,789	1,700	12.75	605	8	2														11,843	6,270
HASTINGS W.			0.01		1.00	1,316	0.93	461	22.81	2,569						215	21	2		1												2,647	420
LANARK	4.50	32.75			7.00	215	1.16	390	7.85	402						55	1	1														1,905	347
MUSKOKA	0.28	3.94	0.20	0.27	7.81	1,377	3.30	911	4.61	424	0.02	10				18	7	2		3												2,080	3,205
PARRY SOUND		18.17	0.50	0.29	15.65	1,713	2.28	1,020	37.59	5,242	0.16	489	2,938			20	39	1						2			5					3,035	738
PETERBOROUGH	0.70	13.00	0.70	5 14		125	16.50	1,823			1.51	30	1,109	1,894	2.33	1,699	20	1		4				1								612	2,166
RENFREW N.	4.35	15.98	2.70	0.40	41.74	915	8.25	2,916	98.28	2,938						1,421	15	2		17												1,071	236
RENFREW S.	0.75	18.63		0.56	68.55	645	1.70	995	68.27	4,967						9,778	24	3		10	1											967	514
SIMCOE E.	0.58		1.18	1.56	4.33	487	3.57	1,472					330		1.25	870	1	4														41	2,031
SIMCOE CENTRE				1.33	68.00		1.33	5,423						360	.50																		
VICTORIA				4.25		486				714		100																				100	1,360
TOTALS	11.47	116.08	5.29	14.15	220.36	12,937	101.43	23,007	375.81	27,541	7.64	3,873	7,151	4,357	16.83	23,690	157	22		41	1			3			6					27,676	20,331

REMARKS:

Raking Stones..............38.83 miles
Cutting Weeds.............48.50 miles
Scarifying..................12.40 miles

APPENDIX F

DEPARTMENT OF NORTHERN DEVELOPMENT—REPORT—April 1st, 1936–TO MARCH 31st, 1937

SPECIAL HIGHWAY PROJECTS—UNEMPLOYMENT RELIEF

Electoral District	Cutting and Burning New Road Miles	Side Brush Existing Road Miles	Stump and Grub Miles	Grading		Ditching	Gravelling				Clay Surfacing		Crushed Rock				Culverts				Bridges											Excavation	
				New	Repairs		New		Repairs												New			Replaced			Repaired			Painted			
				Miles	Miles	Cu. Yds.	Length Miles	Cubic Yards	Length Miles	Cubic Yards	Length Miles	Cubic Yards	No. Yds Crushed	No. Yds. Hauled	Length Road Covered Miles	Dragging Miles	Wood	Stone	Concrete	Metal	Wood	Steel	Concr.	Wood	Steel	Concr.	Wood	Steel	Concr.	Wood	Steel	Earth Cubic Yards	Rock Cubic Yards
ALGOMA	0.50		0.50	2.25			2.25	3,209												10												23,165	
COCHRANE NORTH	0.60		0.60	0.75			0.14	277												3												43,250	
HASTINGS EAST	4.17		0.63	8.30																43												7,357	104,199
KENORA	0.20		0.40	5.20			4.50	9,937									2			6												33,377	3,397
MANITOULIN	0.10		0.10	0.30																												780	1,820
MUSKOKA	2.30		1.71	4.25															1	19												18,120	26,147
NIPISSING	5.26		10.53	32.00			4.50	1,369									26		1	46	2											224,869	73,569
PARRY SOUND	2.13		3.82	5.00			2.00	2,400									3			41	1											84,020	13,250
PORT ARTHUR	0.70		0.70				4.50	20,000									2			13												94,095	550
RENFREW S.	2.00		4.67					236									2			6												24,053	2,992
TEMISKAMING									3.00	328									1													1,326	460
TOTAL	17.96		23.66	58.05			17.89	37,428	3.00	328							35		3	187	3											554,412	226,384

MISCELLANEOUS WORK

Concrete Pavements Constructed, 9.20 miles
Rip Rap—Cu. Yds.................2,686
Piles Driven..........................38
Lumber Purchased...........24,959 F.B.M.

APPENDIX G

DEPARTMENT OF NORTHERN DEVELOPMENT—REPORT, APRIL 1st, 1936-MARCH 31st, 1937

Mining Road Projects—Unemployment Relief

Electoral District	Cutting and Burning New Road Miles	Side Brush Existing Road Miles	Stump and Grub Miles	Grading		Ditching Cu. Yds.	Gravelling				Clay Surfacing		Crushed Rock			Dragging Miles	Culverts				Bridges											Excavation	
							New		Repairs												New			Replaced			Repaired			Painted			
				New Miles	Repairs Miles		Length Miles	Cubic Yards	Length Miles	Cubic Yards	Length Miles	Cubic Yards	No. Yds Crushed	No. Yds. Hauled	Length Road Covered Miles		Wood	Stone	Concrete	Metal	Wood	Steel	Concr.	Wood	Steel	Concr.	Wood	Steel	Concr.	Wood	Steel	Earth Cubic Yards	Rock Cubic Yards
COCHRANE SOUTH	26.00		26.00		12.80	14,734		8,982						891			1			20												121	106
FORT WILLIAM	20.88	7.00	33.14	1.65		1,510	7.25	24,736	4.25	4,573	1.00	1,417				34	56				1											74,618	4,000
KENORA	56.00		55.50	8.50		510	4.00	1,656									62				3											57,795	5,042
PETERBORO		2.00			6.20								511	511	2.00		43			1	1											180,502	31,389
PORT ARTHUR	20.11		12.05	39.30		105	6.00	9,460			2.00	526				20				16												4,500	125
RENFREW SOUTH	6.77		0.07				5.00	3,152												25												2,669	328
SAULT STE. MARIE	4.25	19.75	0.75	0.75	6.50	275	7.88	5,410	21.12	8,708				10,466	14.00	40	2			2	5				6								
SUDBURY	2.75	18.00	18.00				1.50	150								14	12																
TEMISKAMING	10.55	10.90	4.50	1.30	6.00	976	9.60	7,064			0.50	63					18			2	2			2								36,114	8,109
TOTAL	147.31	57.65	150.01	51.50	31.50	18,110	41.23	60,610	25.37	13,281	3.50	2,006	511	11,868	16.00	108	194			66	12			2	6							356,319	49,099

MISCELLANEOUS WORK

Rip Rap—Cu. Yds.	498	
	Cut. Ac.	Burned Mi.
Brush	9.5	2.50
Bridges Torn Down	2	
Piles Driven	105	
Corduroy	0.75 mi.	
Removing Corduroy	0.27 mi.	
Scarifying	68,895 s.y.	
	94,007 s.y.	
	162,902 s.y.	

APPENDIX H

DEPARTMENT OF NORTHERN DEVELOPMENT—REPORT—April 1st, 1936 to March 31st, 1937

RECAPITULATION OF WORK SUPERVISED BY THE DEPARTMENT

Appendix	Cutting and Burning	Side Brushing Existing Road	Stumping and Grubbing	Grading		Ditching	Gravelling				Clay Surfacing		Crushed Rock			Drag-ging, Miles	Culverts				Bridges													Excavation	
				New	Repair		New		Repairs												New			Replaced			Repaired			Painted			Earth	Rock
	New Road Miles	Miles	Miles	Miles	Miles	Cu. Yds.	Length Miles	Cubic Yards	Length Miles	Cubic Yards	Length Miles	Cubic Yards	Crushed Cubic Yards	Hauled Cubic Yards	Road Covered Miles		Wood	Stone	Concrete	Metal	Wood	Steel	Concr.	Wood	Steel	Concr.	Wood	Steel	Concr.	Wood	Steel	Cubic Yards	Cubic Yards
APPENDIX A.......	44.16	611.41	57.73	79.64	762.38	52,870	279.29	91,095	1,260.65	174,808	81.40	20,439	18,194	39,117	112.90	438,642	826	31	15	281	26	1	....	13	....	....	334	4	23	23	3	136,656	27,484
APPENDIX B. 1....	35.24	567.99	30.62	41.15	997.49	74,423	51.95	19,588	891.24	121,041	17.26	9,288	....	6,413	9.26	12,180	908	56	95	90	31	....	1	6	....	3	97	....	....	....	....	37,450	6,078
APPENDIX B. 2....	9.56	526.31	16.88	91.30	2,180.98	30,562	37.33	9,193	1,082.67	188,350	74.15	7,618	7,522	12,953	51.05	17,729	1,276	185	79	121	18	....	....	15	....	....	31	....	....	....	....	21,853	27,885
APPENDIX C.......	33.98	299.80	49.40	103.84	63.75	51,634	193.95	110,670	225.11	44,265	82.10	83,757	20,584	28,259	27.81	10,120	221	18	162	162	13	....	....	13	....	....	13	....	....	6	....	396,582	192,993
APPENDIX D.......	31.44	188.68	33.02	168.88	34.65	41,685	156.26	158,575	360.45	74,870	257.44	76,755	8,638	9,647	15.10	3,563	159	3	5	317	7	....	....	....	....	....	11	....	....	1	....	538,824	675,317
APPENDIX E.......	11.47	116.08	5.29	14.15	220.36	12,937	101.43	23,007	375.81	27,541	7.64	3,873	7,151	4,357	16.83	23,690	157	22	.....	41	1	....	....	....	....	....	6	....	....	....	....	27,676	20,331
APPENDIX F.......	17.96	....	23.66	58.05	....	....	17.89	37,428	3.00	328	....	....	....	....	....	....	35	.....	3	187	3	....	....	....	....	....	....	....	....	....	....	554,412	226,384
APPENDIX G.......	147.31	57.65	150.01	51.50	31.50	18,110	41.23	60,610	25.37	13,261	3.50	2,006	511	11,868	16.00	108	194	.....	.....	66	12	....	....	....	6	....	....	....	....	....	....	356,319	49,099
TOTALS.......	331.12	2,367.92	366.61	608.51	4,291.11	282,221	879.33	510,166	4,224.30	644,464	523.49	203,736	62,600	112,614	248.95	506,032	3,776	315	197	1,265	111	1	1	58	6	3	492	4	23	30	3	2,069,772	1 225,571

MISCELLANEOUS WORKS

Pavements Constructed	Miles
Concrete	9.20
Crushed Stone Retread	22.13
Bituminous Gravel	20.20

	Miles
New Road Constructed	44.47
New Road Gravelled	27.59
New Gravel on Old Road	541.80

Pavement Repairs	68.40

Dust Preventive Material—Calcium Chloride	602.53

Surfacing Other than Gravel or Stone Material

	Miles
Cinders	7.00

Curves on old Roads

	No.	Lg. Miles
Built	11	0.72
Banked	8	0.57

Roads	Width	Lg. Miles
Widened	4 ft.	26.09
Shoulders	4 ft.	139.93
Rip Rap—cu. yds.		38,619

Stock Piles	Cu. Yds.
Gravel	39,502
Crushed Stone	7,500
Sand	460

	Cut Ac.	Burned Miles
Brush	427.30	170.50
Grass and Weeds	4017.00	497.75

Corduroy Laid	9.80
Corduroy Removed	1.16

Drainage	Miles
Ditch Cleaned	459.37
Offtake Built	7.36
Ditch Excavation	40.22
Spread	41.57
Creeks Cleaned Out	11.31
Weeping Tile	1,051 ft.

Culverts	Number
Cleaned of Ice and Snow	3,678
Cleaned of Debris	1,089
Repaired	581

Guard Rail

Cable Used	25,447 ft.
Highway Guard	33,403 ft.

Guard Rail Erected	45,962 ft.
Guard Rail Repaired	12,870 ft.
No. of Posts Used	6,135
No. of Posts Painted	7,045
No. of Posts Trimmed	938

Bridges Protected from Ice	8
Bridges Torn Down	21
Piles driven	659
Concrete Piers for Steel.	

Signs

Standard Road Signs Erected	1,346
Standard Road Signs Repaired	654
Standard Road Signs Repainted	1,390
Lettered Road Signs Erected	1,271
River Signs Erected	132
Reflector Signs Erected	2

Ferries	Total Distance
No. of Round Trips—59,731	36,292

Lumber

Quantity Purchased	891,609 F.B.M.
Quantity on Hand	50,634 F.B.M.

Surveys

Road Traverse	No. 93	779.27 Mi.
Curves	11	0.70 Mi.
Drainage	55	61.50 Mi.
Railway Crossings	16	
Gravel Pits		32.91 Ac.
Right of Way		83.2 Ac.
Bridges	18	

Buildings and Camps

Buildings Constructed	5
Buildings Moved	1
Camps Repaired	1
Camps Torn Down	4
Camp Sites Cleared	3

Machinery Overhauled

Engines	20
Trucks	23
Tractors	27
Passenger Cars	10
Power Maintainers	31
Power Graders	30
Horse Drawn Graders	14
Snow Plows	8
Pile Drivers	1
Stone Crushers	1
Cement Mixers	1

New Machinery

Truck and Snow Plows	1
Snow Plows	2
Gravel Loading Hopper with Dump Cart, Railway, etc.	1
Ten Ton Floor Jack	1
Pneumatic Jacks	2
Electric Belt Driven Circular Saw	1
Sets of Reseating Valve Stones	1
Blow Torches	1

	Miles
Snow Fence Erected	36.37
Snow Fence Burned	12.51
R.O.W. Fence Erected	1.50
R.O.W. Fence Moved	0.05

Cleared, Graded and Gravelled. 1.0 Acre Parking Space at Canoe Lake Portage for Lands and Forests, 1 Cattle Pass, Stone Walls, Timber Top Built.

Weed Cutting.....................57.10

Cut Peeled and Trimmed, 1,600 Guard Rail Posts.

Scarifying.......................15.40

Piling Purchased...........2,000 lin. ft.

Cedar Posts Peeled.................245

Stumps removed from Road Bed, 1.00 Mi.

Overburden removed from Gravel Pit..............1,504 cu. yds.

Raking Stones off Road.....403.81 miles

Roads Snowplowed.........173.46 miles

Roads Sanded.............153.00 miles

Stream Tunnel Constructed........50 ft.

1 Scow, 21 ft. x 14 ft. x 3 ft., Built and Tarred.

New Sluice, New Rollers, Stop Logs Constructed for Dam.

Laying 9,600 ft. Asphalt Plank—4,320 lbs. Compound.

Nine and one-half Carloads Equipment Hauled from Camps to Warehouse.

Cross Waying...............0.25 acres

Repairs to Connaught Dam.

STATEMENT OF ROAD MILEAGES
DEPARTMENT OF NORTHERN DEVELOPMENT

Division	Trunk Roads					Secondary Trunk Roads					Roads in Organized Twps.			Roads in Unorganized Twps.			All Roads
	Pavement		Gravel Surface	Dirt Surface	Total Mileage	Pavement		Gravel Surface	Dirt Surface	Total Mileage	Gravel Surface	Dirt Surface	Total Mileage	Gravel Surface	Dirt Surface	Total Mileage	Total Mileage
	Concrete	Black				Concrete	Black										
ALGOMA—MANIT—SOO.......	2.70	0.75	298.80	16.75	319.00	NIL	NIL	491.50	8.00	499.50	855.65	327.55	1,183.20	310.20	388.90	699.10	2,700.80
COCHRANE, N..............	0.40	NIL	157.20	NIL	157.60	NIL	NIL	91.65	6.25	97.90	66.75	39.50	106.25	223.75	233.25	457.00	818.75
COCHRANE, S..............	NIL	13.50	128.80	NIL	142.30	NIL	NIL	103.08	NIL	103.08	35.75	14.50	50.25	291.52	103.64	395.16	690.79
KENORA....................	NIL	NIL	346.00	NIL	346.00	NIL	NIL	144.50	NIL	144.50	101.50	24.50	126.00	231.50	52.00	283.50	900.00
MUSKOKA...................	NIL	73.30	142.50	NIL	215.80	NIL	NIL	203.00	NIL	203.00	1,200.70	239.25	1,439.95	128.00	NIL	128.00	1,986.75
NIPISSING—STURGEON FALLS..	NIL	29.00	291.50	NIL	320.50	NIL	NIL	159.50	NIL	159.50	696.90	234.80	931.70	171.30	86.40	257.70	1,669.40
PARRY SOUND..............	7.35	36.05	69.60	NIL	113.00	NIL	NIL	260.00	NIL	260.00	417.00	592.00	1,009.00	114.00	410.00	524.00	1,906.00
RAINY RIVER...............	2.20	NIL	114.60	NIL	116.80	NIL	NIL	271.30	4.00	275.30	312.45	112.30	424.75	39.60	25.88	65.48	882.33
SUDBURY...................	6.50	11.70	46.80	NIL	65.00	NIL	1.40	278.00	43.50	322.90	188.00	98.50	286.50	146.00	161.50	307.50	981.90
TEMISKAMING...............	NIL	22.40	165.90	NIL	188.30	NIL	NIL	265.90	NIL	265.90	377.20	96.73	473.93	204.65	123.80	328.45	1,256.58
THUNDER BAY..............	NIL	61.70	248.60	NIL	310.30	NIL	NIL	194.50	NIL	194.50	302.50	166.00	468.50	189.00	182.40	371.40	1,344.70
BANCROFT..................	NIL	1.30	278.20	NIL	279.50	NIL	NIL	101.80	188.20	290.00	417.50	1,194.80	1,612.30	NIL	41.70	41.70	2,223.50
TOTALS...............	19.15	249.70	2,288.50	16.75	2,574.10	....	1.40	2,564.73	249.95	2,816.08	4,971.90	3,140.43	8,112.33	2,049.52	1,809.47	3,858.99	17,361.50

Ontario Research Foundation

REPORT

For the Year 1937

Presented by the Chairman
to the Lieutenant-Governor in Council
December, 1937

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
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1938

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March 17th, 1938.

THE HONOURABLE MITCHELL F. HEPBURN, M.P.P.,
Prime Minister of Ontario,
Parliament Buildings, Toronto.

DEAR SIR:

I have the honour to submit a copy of the Report made to me by Dr. Speakman, Director of the Ontario Research Foundation, concerning the work of the Foundation for the year 1937.

You will observe in the Balance Sheet that the market value of the investments exceeds the combined subscriptions of the Legislature, private corporations and individuals made in earlier years and according to the statutes relating to the Foundation. Adequate provision has been made for the maintenance of buildings and the replacement of apparatus and equipment. The Foundation continues to operate within the income received from investments and payments for services rendered.

The past year has been one of increased business activity and this condition has reflected upon our work. It is gratifying to observe the steady increase in the number of firms within the Province making regular use of the facilities provided for the study of problems arising in a varied field of technical operations. As I reflect on the work performed in these laboratories I am impressed by the return which so often follows the expenditure of moderate sums when work is performed in an atmosphere of complete understanding between the practical man and the research worker. The benefits are not one-sided, and continue long after the particular work ceases.

That the Foundation is growing steadily and that success is beginning to attend its efforts are the natural consequences of these years of faithful and competent service by members of the staff.

I have the honour to be,

Your obedient servant,

J. W. FLAVELLE,
Chairman.

REPORT OF THE DIRECTOR OF RESEARCH, 1937

To Sir Joseph Flavelle, Bart., LL.D.,
Chairman

Dear Sir:

The work of this Foundation during the year 1937 has been characterized by three things: (a) sustained activity throughout the year, (b) a modest increase in staff and equipment, and (c) an increase of thirty per cent in the revenue received for services rendered to industry. Whilst these conditions are gratifying they do not necessarily give a satisfactory answer to the question "Is the Foundation fulfilling a useful purpose, and, furthermore, that for which it was established?" It is appropriate that this question should be considered in view of the fact that in a few months we shall pass the tenth anniversary of the commencement of work in these buildings.

It was, I think, in the minds of those who assisted in the establishment of the Foundation, and it has been your own view during the succeeding years, that the objective of the scientific work which is performed here must be change and progress in the plants and on the farms situated in this Province. Stated in another form our objective is not merely the accumulation and publication of experimental findings and original conclusions. The report which I present to you this year is in some respects in marked contrast to earlier reports. It is characterized, on the industrial side, by evidence of a greatly increased amount of research work carried out in contact and in co-operation with the operating and technical staffs of industrial companies. In the following sections you will observe repeated reference to work which has been successfully completed, first of all in the laboratories of the Foundation and later in plant practice. By the elimination of waste, by increases in efficiency of operation, and by the development and production of new products this Foundation has shared in the creation of better economic returns out of all proportion to the expenditure involved.

The work done in agriculture must I feel be judged by different standards. Our staff is small, and we have not and cannot have at our disposal those facilities which are usually associated with such work. Furthermore, it is obviously impossible to establish contact with or to influence directly the operations of individual farms scattered over this large Province. Our endeavour has been to select significant problems, relating to the health of animals, land cultivation and the raising of crops, within the scope of our facilities and which will permit the Foundation to make some contribution of knowledge and experience to existing organizations responsible for the educational aspects of agriculture. In other words, our aim is not co-operation with the individual farmer but with Departments of Government and other institutions. That this happy condition is evolving is perhaps better shown by a specific example. The recent research papers by our agricultural staff have been published in a journal supported by the Federal Department of Agriculture. The material contained in the reports is already being used in the Agricultural College. In planning our work we have received generous assistance from the staffs of these institutions.

Though progress has been made it is equally true to say that much remains to be accomplished. The number of firms making use of these facilities is a small percentage of the total. The bulk of our revenue comes from a few relatively large and research-minded organizations, in a sense the last one might expect to make use of the Foundation. We still are faced with an educational problem. We should be able to add slowly to our staff for two principal reasons. At present we are not covering and cannot cover effectively the range of technology and science represented by Ontario industry. I should like to continue for some time our policy of starting each year one new laboratory. Experience has shown that if the choice of subject matter and the man in charge are wisely made, and if funds are available to pioneer in the field then industry will respond and by using the laboratory gradually reduce the load. It is also imperative that we should at all times keep in motion the research projects originating within the Foundation.

TEXTILES

Staff: Dr. Goodings, Dr. McKay, Mr. Staples, Mr. Lee

The work of this Department during the past year may be classified as follows: testing of materials and the investigation of problems submitted by manufacturers and other firms interested in textile materials, the carrying out of testing and research work in connection with the Quality Control plan and its extension to include woven rayon materials; the continuation of laboratory and plant research relating to processes developed in these laboratories and the initiation of new research.

It is gratifying to report that the work of the Department in previous years is winning slowly the confidence of the industries it is intended to serve. During the past year 70 firms have made use of the facilities provided. In order to maintain the highest standard possible in equipment, we have added during the year the following instruments:

(a) Launderometer, for determining fastness of dyed goods to washing.
(b) Fadeometer, for measuring the fastness of coloured fabrics to light.
(c) Crock-meter, for determining fastness of dyes to rubbing.
(d) Autographic Tensile Strength and Elongation Tester, for determining strength, extensibility and yarn slippage of materials.

We have also on order an instrument for testing the resistance of textile materials to abrasion, one of the most important factors in the production of 'wear.' The instrument selected is one which is widely used in the preparation of standards and specifications on this continent. We feel confident that as the demand increases for more rigid conformity to specifications the physical testing laboratory will be able to render an essential service to the textile industries.

As previously stated in several of my reports the minor problems submitted by different firms are strong evidence of a need for patient and fundamental research in regard to matters which are clearly the source of trouble to many if not all of the firms in a particular group. Any adequate response to the need is dependent on the development of a corporate interest in such work, and a readiness to contribute to the support of 'group' research. The reasons for the comparative slowness in this development are not far to seek. Solutions to many of these problems lie outside the field of patentable technology, and one of the chief incentives to individual action is therefore absent. It is perhaps not inappropriate to record, however, that the Lancashire cotton industry, composed of ardent and unrepentant individualists, has in some manner effected such a change in outlook that their Research Association laboratories are perhaps the outstanding ones in the vigorous growth of such institutes in Great Britain. One hesitates to adopt the view that adversity, the child of skilled and aggressive competition, is the only precursor of such an outlook in industry.

Requests for advice and information relating to methods and apparatus are constantly coming in, and the answering of such enquiries constitutes a part of the general work of the Department. For instance, a firm considering the installation of a 'daylight' lamp for the matching of shades wished to know the range of types available. Another experiencing considerable trouble from damage to wool goods during storage owing to moths and beetles, asked for advice and a suitable remedy. New processes such as the sulphuryl chloride treatment of wool to prevent shrinkage and the treatment of fabrics with synthetic resins are of interest to firms, and members of the staff are asked to discuss and evaluate them under varying conditions.

During 1936 a method was worked out in the laboratory for the preparation of an improved mineral oil to be used in the early stages of the processing of wool. The essential quality in such an oil is that it must be almost entirely removable from the material before the finishing operations commence. During the past year an attempt has been made to secure patent protection for this invention in different countries. We have also conducted a second series of plant tests in which the oil was compared with others of different types, and the results obtained confirmed the laboratory findings.

In co-operation with the Provincial Department of Lands and Forests further work has been done on the decomposition of linen fire-hose. The essential role played by microorganisms in the rapid breakdown of hose in service has been confirmed and studied.

Laboratory research has been continued during the year in an attempt to analyse and prevent the shrinkage of textile materials during laundering. The experimental work has been planned to cover wool and knitted rayon. In the latter field we have worked in close co-operation with the operating staffs of the companies associated with the Quality Control Committee. It is possible in the laboratory to reduce shrinkage in both cases to a negligible quantity. The staff are now continuing the work with a view to translating these results into commercial practice, in the case of wool by an economical chemical treatment of the material in process and in the case of rayon by slight modifications of the machinery used in the plant.

During the year the process developed in the Department for the production of high-resistance Tussah silk was granted patent protection in the United States and Canada and a similar application has been favourably received in Great Britain. This material has been produced now in Canada for over a year by Dominion Silk Mills, and so far as we are aware with complete satisfaction to the consumer. The Company hopes that in the near future satisfactory arrangements will be made for its manufacture in Great Britain and the United States. The experience of working in close co-operation with the Company in its efforts to develop a new product has been a source of deep satisfaction to the staff. I can think of no better illustration of the benefits which accrue to all concerned when co-operative effort in industrial research is patiently and intelligently undertaken. This Company has agreed to set apart for the support of research in the Foundation a portion of the returns from the foreign patents, and this action also I should like to record and acknowledge with gratitude.

In February, 1932, a Fellowship was established at the Foundation by Courtaulds (Canada) Limited to carry out the technical control, research and development associated with a plan for the production and sale of controlled quality merchandise in knitted goods made from the Company's viscose rayon. During the past year the plan has been enlarged to cover a variety of woven materials including both price goods and ready-made garments. Specifications for the various fabrics and size standards for garments have been prepared by the staff of this Department. In this work an effort has been made to correlate laboratory tests and serviceability to the consumer. In spite of an enlarged staff to carry on this work the initiation of the plan has meant a continuous and heavy load of work throughout the year, and the splendid progress which has been made is a tribute to their faithful and conscientious work.

An analysis of the figures relating to sales and a study of garments purchased by the laboratory across Canada at different times during the year point to two satisfactory conclusions. There is less variation and departure from standards and the minimum standards are being met by manufacturers associated with the plan. In spite of changes in general business conditions the consumption of Quality Control merchandise continues to expand.

Apart from specific problems and laboratory work in general there has been a noticeable development of a closer working relationship between the staff and the plants engaged in textile manufacturing. I can think of no better tribute to service rendered during the past eight years by the staff of the Department.

ENGINEERING AND METALLURGY

Staff: Mr. Ellis, Dr. Goodier, Mr. Tasker, Mr. Norman

In general the marked improvement in business conditions during the past year has influenced favourably the work of this Department. There have been instances, however, of research work supported by companies slowing down or being postponed on account of increased pressure on those responsible for plant operations and executive control. This is a natural consequence of activity in manufacturing, but the danger is that postponement of research to less active periods may mean that it will not be done. Postponement may be advisable if it is associated with a policy of increased research activity and expenditure in quiet times. Wisely planned and vigorously conducted research work often accelerates recovery.

The work performed in the physical testing laboratory has increased four-fold during the year. Apart from the work itself the increase is indicative of a closer and more continuous contact established between the Department and a few of the larger and more progressive engineering organizations. It is significant that it is such organizations which develop as a routine procedure the testing of materials and products. A new departure during the year has been the provision in the Department of better facilities for the heat-treatment of certain forms of steel die and parts. We hope in the immediate future to continue this programme with a view to developing not simply a routine though important service but facilities for research. It is perhaps necessary to point out that the heat-treatment of special steels and shapes is a technical operation calling for experience, skill and the best equipment for the accurate control of atmosphere and temperature.

In the fuel laboratory the most important work undertaken was the preparation of an economic and technical report on behalf of the Public Utilities Commission of Owen Sound. The existing gas plant is obsolete and calls for immediate replacement. The Foundation was asked to study the gas situation, both domestic and commercial, and to make appropriate recommendations concerning the type and size of a new plant. It has been a new, interesting and worth while experience for members of our staff, and especially the opportunity presented of working in complete harmony with the officials of the city and Commission.

The facilities of the Department for the investigation of problems associated with air-conditioning and the testing of equipment for this purpose have been augmented and improved. We are now in a position to apply the standard tests recommended by a joint committee of the American Societies of Heating and Ventilating and Refrigerating Engineers to all types of air-conditioning equipment. When a satisfactory code of standards and specifications has been prepared and adopted in Canada by controlling bodies this equipment will no doubt be more generally used. At the present time there are no standards recognised or in operation. Research engineers are feeling the way, firms are pioneering in the manufacture of cheaper equipment and in the near future this new branch of engineering will be operating according to established principles of design and practice.

During 1937 the investigation commenced in 1936 to determine summer comfort standards for the Toronto district was continued. An attempt has been made to discover what, if any, are the differences in the comfort standards of healthy young men and women. During a period of four weeks, four male and four female subjects were studied in the psychrometric room under varying conditions of temperature and humidity. Briefly summarized the following tentative conclusions were arrived at as a result of these tests:

(a) Entering an atmosphere cooler than that outside, healthy young men are comfortable over a range from 69.5° to 72-72.5° effective temperature. This represents an increase of about 1 degree over the upper limit suggested by the results obtained in 1936. Healthy young women under similar conditions are comfortable over a range of 70° to 73° effective temperature.

(b) On entering an atmosphere warmer than outside young men are comfortable over a range of 69° to 72° E.T. and the range for young women is 71.5° to 73.5° E.T.

This work is part of a more comprehensive programme of research organized by the Research Committee of the American Society of Heating and Ventilating Engineers. The data collected will be reviewed in January 1938, at the annual meeting of the Society, and a programme of future work drawn up.

The study of the resistance to abrasion of iron and steel balls under conditions comparable with those existing in the grinding mills of the mines has been continued. Towards the end of 1936 it became apparent that the principal factor controlling the rate of wear of the balls was not dependent upon their chemical composition. Accordingly the general scheme of research was changed, and the work to be carried out in 1938 has been designed to establish fully this hypothesis.

An oscilloscope has been built to separate, if possible, small metallic objects made from closely related alloys. It was intended for use as an aid in the separation of groups of balls being investigated in the grinding mill. It proved to be an invaluable aid to a manufacturer who wished to separate quickly and economically two large batches of bolts which had become inadvertently mixed. The separation was made accurately and expeditiously by means of this interesting device.

It is interesting to observe the manner in which radio engineering is being applied in almost every branch of scientific research. During the year we have been asked to design and construct apparatus for the analysis and measurement of vibrations. This equipment was used for some time as an aid in the study of cream separators with a view to general improvement in design and a reduction of noise in particular. The same apparatus was available when we were requested to report upon the nature and degree of noise and vibration in the district surrounding a plant in which a large rolling mill was in operation.

From time to time the staff are requested to design and construct unusual pieces of engineering equipment. Perhaps the best example to illustrate this branch of the work during the past year was a machine to remove with great speed and precision small pieces of egg shell which are found in egg yolks. These small pieces of gritty material are sources of annoyance and complaint from those who use the yolks in food products.

For several years work on the creep of fusible metals has been in progress. The rate for one or two of the alloys is almost negligible, and these are still under observation. It is expected that in the near future the results will be assembled and prepared for publication. During the summer months a commencement was made on a study of the influence of the direction of rolling on the mechanical properties of steel strip. This will be continued in 1938.

In the field of engineering theory several contributions have been made during the year by a member of the staff. The papers on thermal stress in the Canadian Journal of Research and the Philosophical Magazine complete a set of three on the strains set up in various typical forms—rods, tubes, strips, plates, and solid blocks—by heating or cooling. Questions on such points are continually recurring in engineering. Efforts to answer them by mathematical analysis date from one hundred years ago. The tendency to increased temperature and higher precision, and the development of welding, have more recently raised many specific problems which can be lucidly resolved only by analysis carried on at first from the somewhat detached point of view of the mathematical physicist. The fourth paper, in the Transactions of the American Society of Mechanical Engineers, is a review, written by request, of such current knowledge of these problems as might be applicable in engineering design, much of which was contributed by the three papers already referred to.

The reading of a paper on the mechanical behaviour of the membrane which separates the root of a tooth from its socket suggested a proof of what is known in engineering as Saint-Venant's Principle, a principle on which virtually all the formulas and methods of structural engineering are based, and which had been accepted as true, but without proof, for some 80 years. The same ideas lead to an understanding of the behaviour of thin elastic pads as often used for reducing vibration from machines.

CHEMISTRY

Staff: Dr. Westman, Mr. Schierholtz, Dr. Marshall, Mr. Maconachie, Mr. MacHattie, Mr. Soanes

The following statement from the report of the Director of these laboratories expresses concisely the work of the past year. "The Year 1937 has been distinguished by a very decided increase in the amount of research work done for outside firms. To some extent, at least, there appears to be a growing tendency on the part of industry to refer its problems to the Foundation for solution, and to show a willingness to pay the costs for the investigations necessary."

In January 1937, a commencement was made in the development of a laboratory for the study of problems relating to Paper, Printing and Adhesives. Progress has been made in securing the necessary equipment and in developing personnel for applying the appropriate technical methods. Our short experience indicates that there is a real need for a laboratory of this type. During the year 41 reports have been sent out to firms, covering a variety of problems. Faults in finished printed paper are difficult to analyse owing to the contribution which paper, inks and technique each make to the product. There is still a considerable amount of 'art' in the industry, and it is sometimes difficult to translate the problem into chemical and physical terms. In addition to faults in printed paper and cardboard themselves, problems arise in connection with their use as containers for foodstuffs, medicines, etc. The laboratory has been able to assist on several occasions in removing causes of complaint, and the development of more appropriate containers. An interesting example of a similar nature was in connection with paper used in wrapping silver. Such material has to meet a high standard of purity in regard to any chemical substances which may give off sulphur-containing compounds and cause tarnishing.

During the year representatives of a number of printers and paper fabricating concerns have visited the laboratory and expressed real interest in this new venture. In keeping with our general policy of initiating within the Foundation research of fundamental importance in fields covered in our work, a start has been made in the investigation of the causes and methods of prevention of 'static' in printing shops. Whilst this problem is not confined to Canada it is more prevalent here than in some countries, especially during the dry, cold winter months. It has been shown by experience that the difficulty can be very largely overcome by controlled humidification of the plant atmosphere and conditioning of the paper. However, this solution may involve impossible expenditure and introduce other technical difficulties.

It is a pleasure to record our debt of gratitude to the directors of various laboratories in Canada and the United States who have assisted the Foundation in the organization of this laboratory.

The programme of research and control work in the paint and varnish laboratory has now progressed to the point where concrete results are beginning to show. That this laboratory can make definite contributions to the technology of the industry, and also act as a centre for the establishment of standards of quality and efficiency, has been clearly demonstrated. These results have lead to a growing interest in the work on the part of both manufacturers and users. The programme of weatherometer and out-of-door exposure tests, involving several types of paint and varnish, has been of distinct value to the staff in enabling them to study at first hand the prevalent types of failure. It has also exposed the relationship in many cases between failure and composition. In spite of confusion in the literature and in the views of competent and experienced workers in this field our results have created a feeling of confidence in the staff that the weatherometer gives results of value provided the limitations of the test are thoroughly grasped and if the significant factors involved are constantly under control.

Work on the problem of transferring pigments from aqueous pastes to an oily medium by methods which are commercially feasible has been continued. The broad outlines of a method were satisfactorily established during 1936, and the staff are now mainly concerned with the refinement of different stages in the process. For example, the initial problem is how to convert a moist paste containing pigment into water and oil emulsion, the pigment being suspended in the aqueous phase. A long and disappointing correspondence with the manufacturers of colloid mills of many types has not resulted in our being able to use standard equipment for this purpose. In addition to the mechanical problem we are faced with the selection of a chemical, to act as the emulsifying agent, which will not interfere harmfully in the final product of which the pigment is an ingredient.

The following pigments have been transferred in the laboratory from aqueous pastes to an oil and completely dehydrated: prussian blue, toluidine red, chrome green and pale chrome yellow.

In addition to its own regular programme of work this laboratory has shared in the solution of the wide variety of investigations which come under the general heading 'chemistry.' The troubles of a manufacturer of blue-printing solutions created the opportunity to study and analyse the chemistry of the reactions which take place when blue-print paper is exposed to light and then fixed. It was also necessary to discover and control the factor which is responsible for the speed of development as well as the final depth of colour. This work is another illustration of an 'art' gradually developing over a period of years by trial and error without theoretical background and on the whole with satisfactory results. Then the time comes when developments in other industries call for adjustments and improvements which must be made rapidly. It is at this point that the 'art' breaks down, and only a knowledge of the principles involved can lead to the desired product.

In order to keep the Foundation in close contact with the more rapidly developing fields of industrial chemistry it was decided to commence, during the year, the equipping and organizing of a laboratory for the study of plastics. Even the lay observer of the physical surroundings of modern life cannot fail to observe the steady increase in the use of materials which look like greatly improved celluloid. The modern car is a specific example of how plastics are replacing metals and other products. This laboratory is also studying the paper industry mainly with a view to finding some commercial use for those materials which are now waste products. It is no reflection on those responsible for paper technology to call attention to the enormous tonnage of organic material which is cut, transported, processed and finally dumped into lakes or streams. When we enumerate national problems and arrange them in order of priority we should not overlook the challenge to convert waste into economic and social advantage.

During the second half of the year satisfactory progress has been made in the investigation of these problems: (a) the conversion of waste wood into a plastic which will meet commercial requirements and which can be produced economically, (b) the development of a double pane of glass at a price which will permit its use in buildings which are air-conditioned, (c) methods for the recovery of lignin from sulphite liquor, the waste from paper mills.

In June a new laboratory was inaugurated to undertake the study of problems associated with the manufacture of waxed paper and kindred products. This venture has been supported financially by Appleford Paper Products Limited of Hamilton, and the inspiration of the undertaking comes from the enthusiastic interest shown by Mr. Powell, the General Manager of the Company. In view of the comparatively short time which has elapsed it is most gratifying to report the progress which has been made. In connection with one product developed in the laboratory we are looking forward to plant scale experiments early in 1938. The story of this laboratory is another striking illustration of what results when the knowledge and experience of an industry work in full co-operation with fundamental scientific knowledge, imagination and experimental technique.

The laboratory devoted to ceramics and non-metallic natural products has been fully occupied with external problems. Continuing the research started in 1936 we have succeeded in our efforts to manufacture from clays available in Ontario, a grey face-brick which compares favourably with imported products. As the opportunity presents itself we are endeavouring now to produce a similar brick under standard commercial conditions through the courtesy and co-operation of the Toronto Brick Company. At the same time experimental chimneys have been built on the roof of the Foundation in order to determine the endurance of the bricks when exposed to the rapid climatic changes of this district.

On behalf of one of the steel producers of the Province a detailed study has been made of the possibilities, technical and economic, of producing glass wool from blast furnace slag. Slag accumulates in large quantities, but it is now being used for various purposes in the States and in Europe. This research is a further example of increased effort on the part of industry to turn waste to good account.

The laboratory is being used to an increasing extent by individuals and companies interested in deposits of clay and similar materials. This is an expression of their desire to enter a field of specialized products and in the higher price range. It is also an outcome of the continued depression in the construction industries.

The Gas laboratory, which is supported by the Consumers Gas Company of Toronto, continues to function with satisfactory results. The recommendations made by the staff in connection with the reduction of corrosion in hot water tanks, and the reduction of stoppages in mains and other services have been tested on a sufficiently large scale by the various departments of the Company to establish their validity.

We have been asked from time to time to assist in the overcoming of problems associated with the use of gas for the annealing of metals. In this field the close association between this laboratory and that of metallurgy is mutually advantageous.

A survey of the literature dealing with damage to mains owing to frost heaving has been made in collaboration with the Distribution Department of the Gas Company. This material has been made available to the industry as a whole upon request of the American Gas Association's Committee on Gas Main Structural Strength.

The specialized technique and experience of the laboratory has been of great value to other departments in connection with gas problems. An interesting example of this co-operative work was that associated with the problem of a brick plant faced with the urgent need of reducing to a minimum the sulphur dioxide content of the gases discharged into the atmosphere from coal fired kilns and driers.

BIOCHEMISTRY

Staff: Dr. Barbour, Mr. Henry, Mr. Lemon

The laboratories in this Department are equipped to conduct research work associated with the leather, foodstuff, fermentation and other industries handling materials which are essentially biological in origin.

In the leather laboratory the main problem which has engaged our attention has been to develop as speedily and effectively as possible the laboratory scale experiments conducted in 1936 in connection with a combined system of tannage for sole and also belting leather. It was considered advisable to increase the scale of the experimental work in order to produce samples of sufficient size to permit complete chemical and physical tests combined with commercial tests if and when desired by interested parties. The indirect result of this is that the Foundation has now running what amounts to a small tannery capable of duplicating all the standard processes.

As a result of the experimental work completed it is now possible to summarize the advantages and disadvantages of the process in comparison with standard practice: (a) There is a considerable saving of time in which raw materials are in process, and thus a saving in investment in inventory for the equivalent output of finished product. (b) The yields of product in terms of raw hide are approximately equal. (c) The strengths of comparable samples and their resistance to wear are approximately the same. (d) The colour of the Foundation samples is at present a hindrance. This is due entirely to the widespread but erroneous belief among the public that shoes with straw coloured soles wear better.

Preliminary tests have been made in co-operation with the McQuay Tanning Company, Ltd., of Owen Sound to discover the properties of transmission belting produced on a commercial scale and in accordance with our experimental methods.

Dry dipping is a process used mainly on sole leather as a short cut for incorporating tanning materials which ordinarily might take several weeks or months by the usual methods of the tan-yard. The process consists in dipping dry leather into warm concentrated solutions of tanning extracts. It is desirable to obtain rapid penetration without injury to the light colour of the finished product. Several of the blends of tanning material proved to be satisfactory both in the laboratory and subsequently in plant trials. Work of a similar nature on the standard method for the tannage of butt splits has resulted in a more rapid and more economical process. This again has been confirmed on a commercial scale.

During the year there have been submitted to the laboratory a variety of leather products in various stages and of different kinds suffering from flaws or damage. It is not always possible to discover the particular fault of omission or commission which the unfortunate producer of leather is supposed to have committed.

In the food research laboratory work has centred around problems connected with the Matzka process for the production of fruit juices which are stable for long periods and which retain their original flavour and content of vitamins. As a result of laboratory tests several changes have been made in the original design for plant equipment, and the present machine is simpler in construction, equally efficient and more economical to operate. During the early months of the year a full-scale plant unit was erected in our large laboratory designed for chemical engineering research. In addition to the unit itself a commercial plant was installed for bottling juice in large quantities. In collaboration with the Red Wing Orchards of Whitby, Ontario, 150 gallons of apple juice were treated and bottled daily. At the end of the run, over 40,000 bottles of different sizes had been filled. It is gratifying to know that the output was quickly absorbed by the public, and towards the end of the year equipment was being installed at Whitby to place the business on a permanent footing. The results of this Fellowship are bearing fruit in more distant parts and a similar but larger plant for the treatment of apple juice is in production in Delaware, U.S.A.

The laboratory has conducted a joint investigation with the United States Department of Agriculture in the investigation of the process in relation to the juice of citrus fruits. Experimental apparatus was set up in Florida and representative batches of grapefruit and oranges were processed. Samples of the juice in bottles and cans were kept for seven months, opened and their keeping qualities and flavour judged. The juices processed at 140°F and over were in excellent condition. Those treated at 145°F had the highest rating in terms of flavour. Juice kept in glass retained its flavour to a greater degree than that preserved in cans, this being particularly true in the case of orange juice.

Work of a similar nature was carried out during the year on the following Canadian fruits: strawberry, raspberry, sour cherry, red currant, Concord grape and Niagara grape. The following fruits imported into Canada were also studied: Cuban pineapple, lemon and lime. There are minor problems to be overcome in almost every case, but the process does meet the essential requirements. Cider, beer and vinegar have also been processed with satisfactory results.

The Matzka Company controls a process developed by Dr. Matzka for the production of an extract of coffee. A number of samples of extract have been made from coffee submitted by companies interested in the possibilities of the process. The results so far indicate that products can be made with good flavour and keeping qualities.

Cans are being used to an increasing extent as containers for foodstuffs and beverages. The laboratory has worked during the year in collaboration with the American Can Company to develop, if possible, an enamelled can suitable for use as a container for apple juice.

Work in connection with the hydrogenation of cod-liver oil has continued during the past year. Improvements have been made in the method of preparation of the catalyst used. The time for the reaction has been considerably reduced. The product made has been incorporated in vegetable oil shortening and the mixture used in the baking of bread. In order to determine the general efficiency of the method as a means of supplying vitamins A and D in the diet of the average Canadian it became necessary to estimate vitamins A and D in the experimental loaves. The estimation of D is dependent on animal tests and presented no new difficulty. On the contrary in spite of the simplicity of vitamin A measurements, according to the literature, we encountered considerable difficulty in obtaining consistent or quantitative results when the standard methods were carefully followed. This necessitated a halt in the major problem and concentration on this vitally important analytical procedure. Ultimately it was found that by slight modifications based on the nature of bread it is possible to estimate A with sufficient accuracy by chemical methods, thus avoiding the tedious and costly procedure of feeding tests with small animals.

A few years ago, Mr. Marshall of Toronto, requested the Foundation to assist him in converting a large number of inedible eggs into an egg yolk product suitable for use by tanners as an oil emulsion stabilizer. The task was satisfactorily performed, and the product met with ready acceptance by the leather industry. Last year the supply of eggs was inadequate, and it became necessary to modify the composition of the product to permit replacement of egg protein without loss of merit to the consumer. The outcome of this study was a product which fulfils all the consumer's demands, is more uniform in composition and consistency, and one which can be made without additional cost to producer or consumer.

Towards the end of the year a new laboratory was organized in this Department to study problems in industrial microbiology and to work in collaboration with the staff of the Department of Pathology and Bacteriology.

AGRICULTURE

Staff: MR. JARVIS, MR. CHAPMAN, DR. SKEY

As I have indicated in previous reports the immediate objective of our agricultural research programme has been to obtain the factual data in connection with those factors which determine the character of Ontario from an agricultural standpoint. In earlier years we have concentrated our attention on the study of the main soil types and their distribution in Southern Ontario. Because of the role which climate plays in determining the crops which can be grown successfully in any area we have, during the past year, surveyed the same portion of Ontario from this angle and divided it into fifteen climatic zones. The data has been secured very largely from the records of the Dominion Meteorological Department, and we are deeply indebted to the officers of this Department for their unfailing courtesy and co-operation. The climate of each of the fifteen regions has now been accurately defined, and the essential facts with maps and charts will be made available to workers in this field in the near future. As I have previously stated the work has been made available already for teaching and crop testing purposes. The method employed in this climatic zoning and a summary of the results were presented at the annual meeting of the Ontario Experimental Union at Guelph.

The survey of land types in Southern Ontario was published in December. During the year progress has been made in mapping the areas which are characterized by specific types of mineral deficiency. For some years now, and to an increasing extent, diseases of a non-pathogenic nature are causing damage to the crops and trees reducing thereby both yield and quality. Conclusive evidence is now available that some of these disorders are due to a deficiency of one or more essential elements in the soil, e.g. magnesium, phosphorus, boron or potash. Whilst it is true that almost any land will in time suffer from deficiency if cropping is continued without the use of fertilizer, it is equally true that certain types of soil are, from the commencement, low or deficient in one or more elements. A particular example of this relationship is to be found in the occurrence of phosphorus deficiency in the strongly alkaline clay loam soils along the northern shore of Lake Ontario. We find a potash deficiency in the light sandy soils situated in the Niagara district and Norfolk county. The problems do not end with the crops which are grown, but extend into the field of animal nutrition. It will be obvious that stock raised in districts with these characteristics will tend to show symptoms of deficiency diseases.

The second major element in our programme has been to study the relationship between soil, climate and cultivation on the principal crops grown in Ontario. In simple language the problem may be stated as a question, "Should potatoes, for example, be grown in Ontario, where do they grow to best advantage and why?" During the past two seasons we have made a detailed survey of the apple orchards of Ontario. In 1936, owing to the very dry season and its consequences we became specially interested in the distribution and causes of diseases such as drought spot and corky core. It is too soon to attempt the statement of definite conclusions, but this survey has shown the confused and serious nature of the apple orchard problem in Ontario. Whilst it can be shown that some of the finest fruit in the world is grown here, one sees evidence of much that will never bring an adequate return to the grower. The successful varieties of apple today are few in number and yet scores of varieties of tree are being grown and adding to costs. Our figures relating to average length of productive life of trees of the same variety in different localities and orchards is evidence of fundamental variations in growing conditions which lie beneath the wide spread in costs and therefore profit to the grower. The future promises more rather than less pressure on the high-cost producer, and this study clearly points to the general need for a far closer co-operation between our scientific institutions and those engaged in agriculture. The old policy of trial and error, the use of marginal land and the use of land for the wrong purpose are all contributing to the economic and social problem, accentuated by a period of low-price levels.

Several companies interested in the production of particular crops have made use of the Department. This work has involved the study of problems associated with tobacco, canning peas, asparagus, peach, tomato and beet sugar.

It has been our pleasure to have with us from time to time senior students from the Ontario Agricultural College who desired to make use of our records and experience in work associated with their theses.

The primary factors influencing the growth of crops and livestock must eventually influence the social and economic conditions of those engaged in agriculture. During the past year we have commenced a detailed analysis of the distribution of population in rural and urban Ontario as shown by the census returns for 1901, 1911, 1921 and 1931. The statistics have been mapped and it is now possible to see clearly the movements of population in Southern Ontario during the past thirty years. The cause of these movements is complicated and not simple, but it is enlightening to compare the population maps with those relating to the other basic factors being studied in this Department.

PATHOLOGY AND BACTERIOLOGY

Staff: Dr. Hadwen, Dr. Gwatkin, Dr. Fallis

My colleagues in this department have continued to give their undivided attention to problems associated with disease and parasitic infestation among domesticated and game animals in this Province. During the year the major portion of their time was again devoted to a continuation of studies of bovine mastitis and the parasites of sheep.

It has been our plan to work in close co-operation with the owners of 12 herds of cattle, 4 of them being added to our list during the year. By these methods we were able to secure samples of milk at regular intervals for laboratory study, and the findings from these tests have been correlated with the clinical reports of Dr. LeGard who has had the herds under constant observation. The second objective in the plan was to test under normal but naturally varied conditions simple control measures to see whether mastitis can be prevented from spreading in a herd when its presence is known in some animals. That there is a great need for some system of control is the obvious conclusion from the following facts: the prevalence of the disease in dairy herds, the serious economic loss to the owners, and finally the simple and sometimes disheartening fact that there is no specific cure for mastitis.

In spite of the fact that there is no cure for Bang's disease or for bovine mastitis, the work done by practical breeders, dairy farmers and scientists has not been wholly in vain. Certain things are known and the consequences of doing some things and not doing others are also known. The difficulty we encounter over and over again in connection with herd control is to secure an intellectual appreciation of the truth and importance of these things. In spite of all that has been done by competent and trustworthy investigators here and elsewhere to establish the value of the "blood test" as an aid in the diagnosis of infection by *Brucella abortus*, scepticism is far too prevalent. This leads to anxiety, doubt and in some cases finally to indifference. The confusing differences in the results obtained by owners in herds under our observation can very often only be explained in terms of the human element. In 1928 a large and valuable herd was tested for Bang's disease. At that time 40 per cent of the animals were positive, and those in charge commenced a plan involving separation into positive and negative units, regular and complete testing, and scrupulous care in connection with the introduction of new animals. To-day a clean herd containing twice the original number of animals is being maintained, and the infected herd is reduced to a small number. In 1935, 20 per cent. of the animals were infected with mastitis. Another separation was put into effect, and the spread of this disease has been arrested. My colleagues report that the results from control measures have been very satisfactory.

The objection might be raised that these animals are maintained under conditions which the average farmer cannot possibly duplicate. This is true, but where the farmer ceases to think about unprocurable physical surroundings and duplicates the thought and attention given to an established routine he can obtain similar results. The area in the Schomberg district is still clean, and the conditions there can be duplicated without too heavy a financial burden on any farming community. Questions involving the health of animals continue to cause anxiety in many circles. I feel that not only is scientific research needed, but equally important there must be developed on an ever increasing scale the co-operative relationship between groups of farmers themselves, and on this fundamental foundation a developing confidence and trust in veterinarians and laboratory specialists working in the closest contact with one another and with the farmers. The incentive to face what is admittedly a most difficult task is freedom from conditions which cause annual losses to breeders and farmers of sometimes staggering proportions.

Five hundred and ninety-four cows in 28 herds have been examined physically and the milk from individual quarters submitted, at regular intervals of approximately 3 months, to the bromthymol blue and rennet tests and to microscopic and bacteriological examination. Of these cows 39 per cent. were definite mastitis cases, 9.6 per cent. were suspicious, and 51.4 per cent. were free from evidence of infection. Of the positive animals 67.2 per cent. were infected with streptococci, 21.5 per cent. with staphylococci, 3 animals with *B. pyogenes* and in 23 cases the nature of the infection could not be determined.

I feel that the work of the past three years has enabled my colleagues to obtain invaluable experience in problems, theoretical and practical, in connection with bovine mastitis. They have already made contributions to the scientific literature on the subject, notably in connection with the disease based on staphylococcic infection. Soon we hope to publish a similar account of several cases of infection by organisms of the coli aerogenes group. The microscopic study of milk and of the udder tissues, normal and infected, is continuing with most promising results.

During the year we have resumed our experimental work with *Brucella abortus*. Various strains obtained by dissociation from normal virulent types are being investigated in culture, and in small animals. Earlier results of an encouraging nature have prompted further work to investigate the possibility of completely immunizing animals against infection by injections of positive serum.

In the sheep parasite study, examination of lambs was continued on 38 animals to find the degree of parasitic invasion and more especially to learn more of the host-parasite relationship and the effect on the host. On the average each animal harboured 4,000 parasites in the intestinal tract. Information on the effect of the parasites on the host was sought by making differential counts of the leucocytes in the circulating blood, tying the intestinal tract off in 2-foot lengths and counting the number of various species of worm in each length, cutting sections from each length of intestine and examining them for damage to the mucosa and counting the number of eosinophile leucocytes in an arbitrary area of the mucosa. In this way the number of eosinophiles in the blood could be compared with the number found in different sections of the intestine. It was hoped that there might be some correlation between the number of eosinophiles and the number of parasites.

The presence of eosinophiles has been found in other cases of parasitic invasion to be due to the reaction of the host and an attempt to establish an immunity against it. We have found no definite relationship of this character. Either the extent of the parasitic burden in our sheep was too low to produce the reaction, or, the species of parasite present in the average Ontario sheep does not produce sufficient local injury to induce any generalized response of the type suggested.

Material is being collected to assist in filling gaps in the life history of the sheep nose-fly *Oestrus ovis*. This parasite is widespread and the cause of great irritation to the host.

Preliminary work on the parasites of game, especially deer, and fish has commenced in co-operation with the Department of Lands and Forests, the Department of Game and Fisheries, and the Ontario Fisheries Research Laboratory. I shall illustrate the type of work and its importance by describing briefly one examination and its findings. Three pheasants from near Normandale were submitted to us for autopsy. One bird was apparently healthy, one was sickly, and one died from an unknown cause. The last bird was anaemic and heavily infested with crop worms which were later identified by Dr. Wehr of Washington as *Capillaria contorta*. It is considered that these were the cause of death, and similar parasites in smaller numbers were found in other birds.

Specimens of gapeworms identified as *Syngamis trachea* were taken from the trachea of each of the 3 birds, although the number in each did not suggest injury. These parasites are, however, serious pests of poultry in parts of North America and in other countries. Little is known of their distribution in Canada. The significance of our discovery and identification is not confined to pheasants. If they become widespread among pheasants they may spread to poultry flocks and be the cause of serious loss. Dr. Wehr of Washington in his letter confirming our identification warns that "pheasants must therefore be considered as spreaders of gapeworm."

All of which is respectfully submitted.

Faithfully yours,

H. B. SPEAKMAN,
Director.

Appendix A

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Appendix C

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*A limited number of those reprints marked with an asterisk are still available and may be obtained on application to the Librarian.

Appendix D

Exhibit "A"

ONTARIO RESEARCH FOUNDATION

BALANCE SHEET

As at December 31, 1937

ASSETS

Cash in Bank and on Hand:			
In The Canadian Bank of Commerce:			
Trust Bank Account	$ 72,560.35		
Operating Bank Account	8,936.61	$ 81,496.96	
Petty Cash		59.86	$81,556.82
Investments:			
Bonds (at cost):			
Canadian Trustee Bonds	$2,626,165.67		
Canadian Public Utility Bonds	198,918.84		
Miscellaneous Bonds	256,843.72		
Total Bonds	$3,081,928.23		
Accrued Interest thereon to December 31, 1937	39,805.53	$3,121,733.76	
Stocks, valued at the lower of cost or market at December 31, 1937		453,161.00	
Total Investments			3,574,894.76
Accounts Receivable		$8,671.29	
Less: Reserve		1,903.12	6,768.17
Stores and Containers			7,839.30
Advances			230.99
Prepaid Insurance			611.65
Fixed Assets (being those owned by Ontario Research Foundation):			
Structural Additions and Alterations		$19,350.08	
Apparatus and Instruments		25,037.65	
Office Furniture and Fixtures		2,740.49	
Library		19,922.03	67,050.25
			$3,738,951.94

LIABILITIES, RESERVES AND SURPLUS

Accounts Payable			$ 4,493.87
Reserves:			
Reserve for Income Stabilization		$285,000.00	
Reserves for Replacement of Equipment:			
Structural Additions and Alterations	$19,749.19		
Apparatus and Instruments	48,192.97		
Office Furniture and Fixtures	4,750.26		
Library	9,572.39	82,264.81	
Total Reserves			367,264.81
Surplus:			
Subscriptions Paid			3,363,100.00
Income Surplus per Exhibit "B"			4,093.26
			$3,738,951.94

Signed on behalf of Ontario Research Foundation:

Ralph Skelton,
Secretary-Treasurer.

I have audited the books and accounts of Ontario Research Foundation for the year ended December 31, 1937, and I have received all the information and explanations I have required and I certify that, in my opinion, and subject to my report, the above Balance Sheet is a true and correct view of the affairs of Ontario Research Foundation as at December 31, 1937, according to the information and explanations given me and as shown by the books.

All my requirements as auditor have been complied with.

January 15, 1938.

A. Elliott Allen,
Of Allen, Miles & Fox,
Chartered Accountants.

Exhibit "B"

ONTARIO RESEARCH FOUNDATION

INCOME AND EXPENDITURE ACCOUNT

Year Ended December 31, 1937

Income:				
Balance at January 1, 1937			$ 3,043.24	
Bond Interest:				
Received for year	$104,136.16			
Received (arrears)	3,205.00			
Accrued	39,805.53			
		$147,146.69		
Dividends on Stocks		34,131.31		
Bank Interest		239.56		
Researches for Industrial Corporations		43,972.22		
Royalties Received		183.36		
Gain on sale of motor car		119.85		
Discount taken		36.78		
Sterling Exchange		512.49		
			226,342.26	
				$229,385.50
Expenditure:				
Salaries:				
Laboratory Salaries	$ 88,981.42			
Other Salaries	27,749.88			
		116,731.30		
Laboratory Expense:				
Chemicals	$ 1,244.44			
Apparatus	5,015.07			
Other Supplies	5,341.25			
Travelling	5,230.83			
Sundry	3,737.29			
Special Grants	2,247.49			
		22,816.37		
General Expense:				
Bank Charges	$ 92.26			
Brokers' Charges	84.00			
Extension Work	3,315.23			
Fuel	1,515.88			
Gas and Water	829.43			
General Expense	4,796.73			
Insurance	776.16			
Light and Power	1,511.97			
Office Expense	978.27			

Postage and Excise	$ 387.01			
Patent Expense	472.04			
Repairs and Alterations to Buildings	6,046.98			
Staff Annuity Account	1,816.51			
Telephone and Telegraph	1,047.42			
Travelling	254.69			
U.S. Exchange	26.37			
		23,950.95		
			163,498.62	
Depreciation:				
On Structural Additions and Alterations		$ 2,873.15		
On Apparatus and Instruments		7,474.66		
On Furniture and Fixtures		685.96		
On Library		1,840.55		
			12,874.32	
Transferred to Reserve for Income Stabilization			36,429.63	
Transferred to Reserve for loss in market value of stocks			10,489.67	
Transferred to Reserve for Doubtful Accounts			2,000.00	
				225,292.24
INCOME SURPLUS AT DECEMBER 31, 1937				$ 4,093.26

Annual Report

UPON THE

Industrial Schools and Training Schools

OF THE

PROVINCE OF ONTARIO

BEING FOR THE YEAR ENDING 31st MARCH

1938

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL PAPER No. 61, 1938

ONTARIO

TORONTO
Printed and Published by T. E. Bowman, Printer to the King's Most Excellent Majesty
1939

THE HUNTER-ROSE CO., LIMITED TORONTO
H R
PRINTERS—BOOKBINDERS

TO THE HONOURABLE ALBERT MATTHEWS,
Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present the Annual Report upon the Industrial Schools and Training Schools of the Province of Ontario for the year ending 31st March, 1938.

Respectfully submitted,

H. C. NIXON,
Minister.

HONOURABLE HARRY CORWIN NIXON,
Provincial Secretary of Ontario.

SIR:

In April 1937 the Ontario Training Schools and Industrial Schools were placed under the direction of this Department. I do not know of any more important work than that of shaping and influencing the lives of boys and girls who are under-privileged, and because of conditions and circumstances in their early years have approached, or actually started along the path of delinquency. That path, if followed, leads eventually to misery and prison. Re-directing these lives into paths of happiness and usefulness is the responsibility, not only of officials directly concerned, but also of all religious and social service organizations and citizens. It is my studied opinion that the work of developing these children into useful citizens by so many agencies along scientific lines combined with interested, loving, human sympathy has attained success not previously reached.

The qualifications of the members of the staffs of these schools in education, human kindness, sympathy, understanding and character are all important. Therefore these qualifications have been sought and found in strengthening the personnel of these staffs.

Proper equipment and buildings are necessary, and these have been supplied to a reasonable extent, keeping in mind the fact that these boys and girls must in a short time go individually to other surroundings. It is essential that they learn and appreciate bright, sanitary and wholesome conditions and the niceties of proper living, but if they are maintained in the school in comparative luxury, return to more ordinary and necessary conditions may bring dissatisfaction and failure.

We believe that while the Training or Industrial School is necessary for some, it is only a temporary expedient where the child is given discipline, academic and vocational training, and taught proper habits and the necessity of living amicably with others. But we believe also that such training should be short and intensive, and as soon as possible the child should be placed in a reasonably good private home; his own home preferably but if success does not appear to be likely there, then in some other home. There he is in more natural surroundings. There is action directed at him by the father and mother, school teacher, clergyman and neighbours. Therefore we have emphasized the necessity of making the training in these schools as short and intensive as possible, and as a result there has been a very marked increase in the number of the pupils replaced in their own homes and placed in foster homes, the latter particularly in the rural districts. This policy is still in the experimental stage and it is too early to properly measure results. However, they appear to be good, and it should at the same time be noted that the financial cost is reduced.

Attached for your consideration is the report of the Advisory Board, the reports of the heads of the Training Schools and the Industrial Schools, and the statistical reports of these schools, all for the year ending March 31st, 1938. I wish to pay tribute to the earnest and able work of the staffs of the schools and of the officials of this department who have had a part in this work. I especially wish to commend the members of the Advisory Board. They are all busy, public spirited citizens, who have generously given much of their time without any financial remuneration whatever, and without any expense to the Province. The record of this Board in that respect I believe is unique. You will note that there were fifty-two meetings during the year and 3,636 cases were reviewed. The judgment and counsel of the Board and the individual members has been invaluable to us. I wish also to express to you, my appreciation of the privilege of being connected with work which is so important and interesting, and from which one derives great satisfaction because of results obtained.

C. F. Neelands,
Deputy Provincial Secretary.

REPORT OF ADVISORY BOARD FOR INDUSTRIAL AND TRAINING SCHOOLS

We have the honour to present the seventh annual report of the Advisory Board for Industrial and Training Schools, covering the period from April 1st, 1937 to March 31st, 1938.

During the year we have held 52 meetings and reviewed 3,636 cases. The record of each boy and girl in the Schools is reviewed every four months, and more frequently when special attention is required. The health, conduct and general progress of the pupils have in this way come under regular review.

The Industrial and Training Schools of the Province are not penal institutions and should be looked upon as educational in their function, and this principle is observed in deciding the course of training, treatment, and length of stay of each pupil in the schools.

Pupils who are received into the schools receive thorough physical and mental examinations. The physical examination includes tuberculin tests, shick test for diphtheria, and if positive, immunization, Dick test for scarlet fever and vaccination against smallpox. Any pupil who is tuberculin positive is subjected to an X-ray examination of the chest. Pupils who are underweight receive special attention to their diet. The mental examination may show personality traits which point to definite needs in the training course, or it may show variations in intelligence which also call for special methods. The fact that some 18 per cent. of the population of the schools are mental defectives, constitutes a serious problem. In the opinion of the Board there is great need for an institution for delinquent defectives who do not fit into the Industrial and Training Schools, and who may not benefit by the training at the Ontario Hospital School, Orillia.

Academic work in the Schools, also the vocational work are carried out under regular inspection of the Department of Education. A course of study was secured during the year from each school and reviewed by the Board. In a previous report the Board stressed the need for co-ordination of vocational and academic training. No progress has been made in regard to publishing such co-ordinated courses of study.

The policy of the Board as previously reported, is to reduce as far as possible the period of school residence, to encourage the placement of younger children in foster homes, and the procuring of employment for the older pupils as soon as their general improvement appears to warrant such action. Examination is made of placement reports to see that placements continue to be satisfactory and suitable for the child so placed. Boarding home placement after a short period of correction has tended to shorten the stay of the children in the schools, and the problem of rehabilitation has been lightened.

Schools have full-time Placement Officers who are responsible for placing children in boarding and other homes, and for providing supervision after such placement. Reports of these officers must be approved by the School superintendent and submitted to your Board.

Eight per cent. of those in the schools are children under the age of twelve, and our efforts to return them to some form of normal family life as soon as it is feasible will be continued.

The properties at Bowmanville, Galt and Alfred are admirably suited to various forms of instruction in agricultural and horticultural work, and for instruction in animal husbandry, poultry raising, household science, etc. The location of St. John's Industrial School does not lend itself to agricultural training. While the need for such training is now recognized, and to some extent given, development on a wider scale than at present is desirable.

Since last report your Board found a number of cases of juvenile commitments for definite short periods, as if to a penal institution. It is manifestly unwise to assume that correction by training can be accomplished within any prescribed period, as it is impossible to establish correct habits in any given time. Court authorities should be informed and instructed that committals to the Schools without specified terms being designated is the correct procedure. This principle is observed in connection with those admitted to Training Schools.

Your Board has in its previous reports recommended that serious consideration be given to the possibilities of extending the Juvenile Court System. It is felt that a Juvenile Court should be established in any suitable locality, and that endeavour be made to secure co-operation from voluntary social agencies. Many children of tender age find their way into custodial care and become a charge on the taxpayer because there are no social agencies in their community to assist in adjusting their problems.

We would again draw special attention to the impropriety of permitting too often repeated probations of those appearing in courts. Even in some of our largest centres, where Juvenile Courts are most completely equipped, and where generally effective and useful private social agencies are actively in support of the public authorities, there are cases of boys and girls being finally committed at fourteen and fifteen years of age, whose delinquency record would have justified them being sent to the Industrial and Training Schools earlier than their eventual commitment. It can be confidently stated that the academic and vocational training and health development is more effective between the ages of twelve and fourteen than between the ages of fourteen and sixteen. Those in the higher age group whose confirmed delinquency is of some years' standing can only be effectively handled by being committed to our Schools at earlier ages, and their rehabilitation would be accomplished earlier and at a much less cost. Confirmed delinquents whose commitment is unwisely delayed until say fifteen years and over, are potential prospects for senior penal care and their influence upon the juniors in the schools is most dangerous and destructive. In such cases the training of the schools along constructive lines is more or less in danger of being offset by the pupil being in contact with those considerably older whose experience in delinquency is more varied and advanced. Whatever provisions may be thought advisable for delinquents over sixteen years of age, your Board is strongly of the opinion that the Industrial and Training Schools for Boys and Girls are not the proper places for such older delinquents.

Your Board has continuously adhered to the policy of removing older delinquents from these juvenile institutions. Of the present population over the age of eighteen, all are pupils whose problems are difficult of solution because of social and mental disease and other defects, which make it inadvisable to replace them in society. The Industrial and Training Schools are not equipped to deal adequately with many of these problems. These older boys and girls are a disturbing influence upon the younger inmates, and in escape and conduct problems the initiative can frequently be traced to one of this older group.

The Board adopted the policy of terminating wardship only in those cases where boys or girls were properly re-adjusted. Wardship therefore is retained when a pupil is sent to a senior corrective institution, so that he may be afforded social work facilities of the Department upon leaving the senior institution and continue under the supervision of the Placement Officers of the Schools, who continue to make regular progress reports through the Superintendent of the School to the Board. This policy was extended to include cases of boys or girls absent without leave.

Your Advisory Board had the opportunity of appearing before the members of the Royal Commission to Investigate the Penal System of Canada. There was an interesting and comprehensive discussion of the problem relating to Industrial and Training Schools and juvenile delinquency, and the incidental experience of parole, probation and placement. Reference was made to the desirability of consolidating the Industrial and Training Schools Acts.

In last year's report your Board pointed out that some difficulty has been experienced in regard to the training of Indian boys and girls, who cannot always be rehabilitated through the same channels as other juvenile delinquents. Your Board earnestly recommends that suitable arrangements be made between the Provincial and the Dominion Governments to permit all Indian delinquents to be transferred from the Provincial authority to Dominion authority. These Indian juveniles should receive training in Indian Schools where the staffs are accustomed to deal with Indian problems.

C. L. BURTON, *Chairman.*
ADELAIDE M. PLUMPTRE.
W. T. KERNAHAN.
GEORGE W. HAMBLY.
W. R. COCKBURN.
E. P. LEWIS, M.B.

THE REPORT OF THE ONTARIO TRAINING SCHOOL FOR GIRLS, GALT

April 1, 1937 to March 31, 1938

The capacity of the School was doubled in 1937 by the erection of a large cottage that was opened at the Christmas season. The opening took the form of an informal Christmas banquet. Admissions during the year proved the need for increased accommodation. In the year 46 girls were admitted, a number equal to the number in residence at the beginning of the year, and on March 31st, 1938, 60 girls were in residence.

Academic

The course of study prescribed by the Ontario Department of Education was followed. Forty-eight girls attended elementary classes and 31 attended first and second form High School.

As the aim of our training programme is to teach each girl how to live and to build character, a practical programme of work in home management, cooking and sewing is stressed. In the development of this programme the project method is used. In sewing the projects included the making of one hundred and twenty-six pair of curtains for the windows of the new cottage, the making of household linens and the various articles of girls' clothing.

The domestic science laboratory served to unite the theoretical and practical aspects of cookery and increased the girls' interest in their work in the kitchens.

Because so many of our girls are placed in domestic service, and because it was found that many of them experienced difficulty in adjusting to the requirements of a smaller household, a three-roomed apartment was established where a girl was transferred for a period of three weeks before her placement. Here she learned to correlate all the household activities and to cook in family size.

The well equipped laundry in the basement of the new cottage made it possible to establish a complete course in laundry. This course proved popular with a number of girls.

Classes in health and beauty work stimulated interest in personal appearance and cleanliness, and offered great opportunities to indirectly teach the importance of good manners, correct deportment, charm, etc.

Extra-curricular

A great deal of interest continued to focus about the hobby classes which included sculpturing, handcraft, vocal and instrumental music and dramatics. Each girl was encouraged to participate in some hobby and thereby create an interest which she might enjoy when she leaves the School.

Placement

The placement work was accelerated during the year by the addition of an extra worker. It would be difficult to overemphasize the importance of this phase of the work, and yet, what it involves is so little understood by the public at large. It is the struggle to direct the adolescent girl in her adjustment to a life in the community, and but a few of the ever recurring obstacles to overcome are summed up in such terms as physical and mental abnormalities, mental instability, ignorance and intolerance of relatives, and lack of sympathy and understanding or apathy on the part of many of the people in the communities where the girl lives.

Girls placed in the community, be it in their own, foster or work homes require to be visited. These visits require time and great understanding, patience and wisdom on the part of the worker, for it is their responsibility to search out the hidden factors that have come between the girl and her employer or foster mother, and to see that their attitude toward each other is made right.

During the year 2,711 visits were made, 352 homes investigated, and 306 agencies and clinics were contacted.

"Those things that count most cannot be counted", best sums up this phase of the work.

DENTAL

Our dentist continued to spend one half day a week at the School. It was found that the teeth of many of the newly admitted girls had been seriously neglected. The treatment carried out improved the appearance of a number of the girls so much, that it materially assisted in their adjustment.

MEDICAL

No severe illnesses were recorded during the year. Routine physicals including gynecological examinations were given each girl, and any treatment found necessary by such examinations was carried out.

All of which is respectfully submitted,

NELL WARK,
Superintendent.

THE REPORT OF THE ONTARIO TRAINING SCHOOL FOR BOYS, BOWMANVILLE

April 1, 1937 to March 31, 1938

Report of Academic Department

The average enrolment in each grade for the past year was:

Auxiliary	20
Full Time Academic	26
Grades 3 and 4	11
Grade 5	20
Grade 6	28
Grade 7	27
Grade 8	39
Grade 9	10

The new courses of study laid down by the Department of Education for Grades 1 to 6 inclusive have been followed as has that for Grade 9. Some time has been spent on enterprises and projects in classrooms as recommended in the course. Magazines, newspapers, etc., are explored for diagrams, illustrations and interesting items for class work and the pupils are encouraged to bring similar concrete material.

Considerable time has been spent on Music and Music Appreciation as required in the new course. The School had a few entrants in the 1937 Durham County Festival and one of our boys was successful in winning the bronze medal in the Adult Baritone Class.

Some extra curricular work was done by the Academic Teachers among boys interested in airplane modelling, art and philately.

The Entrance Class had another successful graduating class in June 1937, when 22 out of 25 candidates were passed. During the years 1931-1937 inclusive, 142 out of 162 candidates (88 per cent.) have been able to obtain their Entrance Certificates at this Departmental Examination.

Examinations are few; only the minimum are given to determine the pupils' progress. Promotions or demotions may occur at any time during the school year as a pupil merits it.

Our library numbers at present 2,157 books. During the year 22 new volumes were added for general reading and 312 supplementary readers for classroom use. Fifty books were sent out for repairs. Books are sent weekly to each cottage in groups of 10 or 12. Fifty books were sent to the Hospital to remain as a library. The library is at present being catalogued and re-arranged.

Physical Department Report

All boys with the exception of those on special duty and light duty attended regular periods of instruction in the gymnasium and swimming pool.

Championships, Special Events, Organizations.

Annual Track and Field Championships were held in the month of October, 1937.

Thirty-three events—92 boys competed in the preliminaries—57 boys competed in the finals.

Burketon to Bowmanville Relay Race —12 miles—won for the third consecutive year by our team when we defeated the Bowmanville High School.

Forty-two boys trained for the event—15 qualified for the team.

Annual Swimming and Diving Championships were held in February, 1938.

Twenty events—48 boys competed in the preliminaries—39 boys competed in the finals.

Annual Gymnastic Championships were held in the Spring. All competing boys were examined on the four pieces of apparatus.

One hundred and forty-six boys competed—34 competed in the semi-finals—16 boys in the finals.

Junior and Senior Basketball teams represented the School in games played against outside school teams.

Forty-six boys tried out—30 were given special training—25 qualified and played. Six games were played by the two teams.

Junior and Senior Hockey teams represented the School in two games played against outside teams.

Sixteen boys played on the two teams.

Forty-nine boys were members of the Leaders' Corps during the year.

Annual Demonstration in Physical Training was again the outstanding event of the year.

Nine numbers—152 boys took part.

Organized League Sports.

Softball—1 league in 4 graded sections.

Eighteen teams—177 boys—92 games.

Football—Early Fall league in 3 graded sections.

Fourteen teams—169 boys—44 games.

Late Fall league—4 teams—52 boys—12 games.

NOTE: Late Fall league was for those who preferred to continue playing football. Remainder was organized into a Fall Basketball league.

Periods of Instruction in the Gymnasium.

The following work was covered in the regular periods of instruction:

Marching tactics, including posture and poise.

Danish fundamental and corrective gymnastics.

Apparatus work on the horizontal bar, parallel bars, side horse, long horse, tumbling on the mats and rope climbing.

Skills, drills and playing rules of Basketball, Hockey, Baseball, Football and Rugby.

Group Games.

Periods of Instruction in the Swimming Pool.

Instruction and drills in leg stroke, arm stroke, breathing, timing, rhythm, racing start, racing turns in the following types of swimming strokes: (a) Crawl, (b) Back, (c) Breast.

Instruction and training in springboard diving.

Diving for weighted, submerged objects.

General training for muscular development and stamina.

General Camp Programme.

Mornings were regularly spent in tidying the cabins, morning devotions at which the counsellors in turn gave a five-minute talk, work projects for the improvement of the grounds and facilities, morning swim.

Daily staff meeting was held at noon while the boys were in rest hour under supervision.

Afternoon programme consisted of definitely organized and scheduled periods of instruction in track and field athletics, boxing, wrestling, apparatus work, tumbling, tennis, horseshoe pitching, nature lore, campcraft, soccer, rugby, swimming, volley ball, danish rounders and group games. These periods were followed by an afternoon swim.

WOODWORKING REPORT

Class Projects.

Teapot Stands, Taborets, Doorstops, End Tables, Magazine Stands.

Machine Work.

Candlesticks, Smokers' Stands, Plant Stands, Fruit Bowls, Fernstands, Baseball Bats, Mallets, Gavels.

Maintenance Work.

Twenty Drawing Boards.
Two Folding Tables.
Six Chicken Feed Boxes.
Dismantling Cupboards, Shelves and Service Tables in Kitchen.
Making Bread Shelves.
Erecting Picket Fence at South Lodge.
Fifty Crates for Vegetable Cellar.
Renewing and Repairing Screens on Dining Hall and School Building.
Fitting Cotton on Chicken House Sash.
Repairing Flower Boxes.
Painting Farm Fence Posts and Gates, Workshop, Screen Sashes, Pergola and Bridge.

Through the Summer, this Department assisted with the horticultural work, digging flower beds, cutting grass, trimming edges of roadway, cleaning up shrubbery, etc.

Two short courses in Woodworking, attended by teachers in Col. Snider's Inspectorate, were held during the Winter months. Average attendance—18.

Average monthly roll of pupils—25.

REPORT OF METAL WORKING DEPARTMENT

The Shop work consisted entirely of products for the immediate use of the Institution:—

The making of metal-framed fly screens for the ground floor and basement windows of the Hospital Building.

Making and placing of iron gratings for the areaways around the Shops' Building.

Making of bushings, grinding and refacing valves, and repairs to return pumps.

Making milk can drying racks of welded pipe construction for pasteurizer room.

Five garbage cans.
Six waste paper baskets.
Twelve heavy gauge scrub pails.
Sixteen dust pans.

Rebuilding the platform of the School Truck and making special bolts for side rails, adding an extra cross brace and making new rack and fittings.

Servicing of School Car and Truck and washing of cars.

Painting.

The exteriors of the Shops' Building, Dining Hall, Stores, Darch House and Herdsman's Cottage received two coats of paint.

The interior of the entire Dining Hall was painted and the remodelled Pasteurizer Room received four coats of paint.

The roofs of the Darch House, the Herdsman's Cottage, the Chicken Houses and Implement Sheds were treated with shingle stain.

The metal roofs on the Somers' Farm Buildings were treated with roof paint.

Miscellaneous.

Prior to the opening of Camp, the group was busy opening and cleaning the buildings, making minor repairs, setting up pumps on the wells, making repairs to water and sewage systems, and keeping the grass cut in preparation for camp opening.

A large quantity of earth was hauled for levelling area surrounding the Power House, and for banking up the area around the Root House.

Some 75 young trees were dug at the local nursery and hauled to the School for replanting.

Alterations were made to the entrance of the Shops' Building also the tool crib in the shop.

Considerable welding and cutting of heavy pipe was necessary in alterations to the School Disposal Plant.

AGRICULTURAL DEPARTMENT PRODUCTION REPORT

FEED AND FODDER:

Oats	2500 bus.	@	$00.40	$1,000.00	
Wheat	500 bus.	@	.90	450.00	
Barley	100 bus.	@	.60	60.00	
Hay	125 ton	@	10.00	1,250.00	
Straw	100 ton	@	6.00	600.00	
Mangels	12 ton	@	4.00	48.00	
Turnips	5 ton	@	4.00	20.00	
Ensilage	75 ton	@	5.00	375.00	
					$3,803.00

GARDEN AND ORCHARD:

Potatoes	600 bags	@	$0.90	$540.00	
Cabbage	2500 lbs.	@	.01	25.00	
Cauliflower	150 lbs.	@	.02	3.00	
Beets	2000 lbs.	@	.01	20.00	
Carrots	5000 lbs.	@	.01	50.00	
Parsnip	1000 lbs.	@	.01	10.00	
Tomatoes	2500 lbs.	@	.01	25.00	
Lettuce	235 lbs.	@	.05	11.75	
Chard	617 lbs.	@	.03	18.51	
Butter Beans	155 lbs.	@	.02	3.10	
Green Onions	422 lbs.	@	.02	8.44	
Onions, Storage	1500 lbs.	@	.02	30.00	
Sweet Corn	2160 lbs.	@	.02	43.20	
Rhubarb	1370 lbs.	@	.01	13.70	
Radish	380 lbs.	@	.02	7.60	
Cucumbers	1260 lbs.	@	.02	25.20	
Squash	800 lbs.	@	.01	8.00	
Citron	50 lbs.	@	.02	1.00	
Strawberries	285 qts.	@	.10	28.50	
Apples	60 bbls.	@	3.00	180.00	
Currants	15 lbs.	@	.10	1.50	
					1,053.50

LIVESTOCK AND POULTRY RETURNS:

Dairy, Milk and Cream	$2,192.49	
Cows, 24 old Guernsey Herd sold for beef	788.75	
Calves, 2 day old	6.00	
Eggs, 2402 doz.	600.50	
Dressed Poultry, 1504 lbs.	376.00	
Swine, 58 Market Hogs, sold	1,167.17	
Sheep and Wool	57.35	
		$5,188.26
Seed Cleaning		93.20
Hay Standing		70.00
Old Horse, sold to Fertilizer Plant		7.25
Total		$10,215.21

REPORT OF SHOE DEPARTMENT

During the year, this Department made 704 pairs of Boots. In addition 920 pairs of Boots were repaired.

Maintenance Work.

Repairs to Harness, Sporting Goods and Belting.

Special Work.

Making pictures and display for Coronation Painting and decoration of exterior and interior of Shop Building.

A. R. VIRGIN,
Superintendent.

REPORT OF THE MEDICAL OFFICER

The following is a report of the medical work done at the Ontario Training School, Bowmanville, for the year ending March 31, 1938.

Physical examinations of New Boys	242
Re-check examinations	425
Number admitted to School Hospital	279
Total days spent in Hospital	1,998
No. of boys treated at Clinic	2,909
Staphylococcus Toxoid Treatments 79 boys received 8 doses each	
No. of boys Tuberculin Tested	210
Emergencies, Fractures, etc.	10
Operations performed in Bowmanville Hospital	
Tonsillectomies	31
Herniotomies	2
Appendectomies	4
Circumcisions	6

W. H. BIRKS, M.D.,
School Physician

DENTAL REPORT

Silver (Amalgam) Fillings	398
Synthetic Porcelain (Silicate) Fillings	89
Porcelain Crowns	2
Root Treatments	6
Root Fillings	5
Gum Treatments (Pyorrhoea)	41
Extractions	188
Prophylactic Treatments	63
Full Dentures	2
Total Number of Operations	794

Two oral surveys were conducted at the Cottages on April 8, 1937 and October 26, 1937.

Respectfully submitted,

R. E. DINNIWELL, D.D.S

PLACEMENT OFFICER'S REPORT

Boys Receiving Supervision at the beginning of the period		218
Boys Discharged during period		230
Boys Re-admitted to the School	53	
Boys Released from Guardianship	79	
Boys Employed on Farms	44	
Boys in Sanatoria	7	
In Working Boys' Home	9	
Number Attending School	157	
Other Institutions	12	
Employed in Machine Shops	3	
Employed at Factory Work	14	
Employed as Messengers	12	
Miscellaneous Positions	20	
Bus Boys	4	
Office Employment	1	
Garage Work	2	
Carpentry Work	1	
Bush Work	3	
Unemployed	20	
Deceased	1	
Whereabouts Unknown	6	
	448	448
Boys Discharged during period		230
Placed in Foster Homes	63	
Placed on Farms	23	
Placed in Sanatoria	5	
Placed in Working Boys' Home	15	
Returned Home to Attend School	61	
Placed in Other Institutions	4	
Returned Home to Seek Employment	49	
Paroled while A.W.L.	10	
	230	

Under Supervision at the End of the Year	315
No. of Visits to Boys	1,045
Attendance at Clinics and Social Agencies	71
Attendance at Court	28
Homes Investigated	216
Mileage Covered During Period	35,265

Placement Officer was assisted two days per week by Mr. H. B. Pollock.

J. J. Brown,
Placement Supervisor.

REPORT OF
ST. MARY'S INDUSTRIAL SCHOOL, TORONTO

April 1st, 1937 to March 31st, 1938

We bade our readers adieu March 31, 1937, with faint stirrings of regret, because we had become attached, in some measure, to our actors as well as to our readers. The narrative is resumed.

The fact is admitted, generally, that spring is a season of restlessness for youth. This holds true among our pupils, many of whom are troublesome to themselves and to others at the near approach of spring. When March and April finish their course a period of calm and peace follows.

It is admitted, also, that each century, each generation, each cycle, has its peculiar and individual spirit or stamp. Here, likewise, this is true. If it were possible to group the pupils admitted each year, as units in succession, and to study the characteristics of each unit, thoughtfully, one would be astonished at the difference in type, mentality, outlook, of the several groups. Custom does not, "Stale the infinite variety." There is an interwoven resemblance within each group, and a diversity between each unit. This distinction holds true for the group admitted within the twelve months under consideration. Admitted at intervals, each one merged into the tone of the entire group, but from the unit view the thread of similarity was pronounced and may be expressed by the term, "Shallowness."

Any appeal to the senses produced immediate reaction, but the claims of religion, morality, ethics, social and civic obligations were ignored. This was not through any principle of dislike, ill-will, or rebellion. These claims were unknown, non-existent. Docility was a second general characteristic, but it is hard, sometimes, to induce the docile person to produce satisfactory and lasting results.

The Academic year was good and the pupils worked hard. Eight passed the Entrance to High School, three obtained Shorthand Certificates in Senior Theory, Proficiency, Speed. The Continuation grades gave satisfactory results because they worked industriously.

Vocational training followed the lines of former years. First, most important and most necessary was demonstrated the art of personal cleanliness and neatness. Stress must be placed on this, always. Each pupil is assigned a portion of the building as a special charge and these charges move in rotation. This gives them a good working knowledge of the care of a home, the floors, walls, furnishings, draperies, linen, cutlery, china. They like this work and it is most interesting to watch the development of care, judgment, thoroughness, taste and harmony. It must be that every woman has the home-making instinct buried somewhere. Needle-work plain and fancy, embroidery, knitting, darning, lace-making, etc., were studiously followed in the sewing department. The older and more reliable pupils become very capable operators of the power machines. They learn to cut, fit, and make up the articles of ordinary apparel.

For those who have the artistic talent a course of study in crayon, water tints and oils is taught. This class is not large at any time because few have love for colour, line and perspective. Fewer still have the patience care and skill required. The finished work in this branch is extraordinarily good. There is no room available, at present, for the training in beauty parlour work, but the pupils look after the hair-dressing and the manicuring of the entire class. They show very good taste and a sense of becomingness.

Health continued good. One pupil of Indian extraction developed infantile paralysis but recovery was quick and there remained no bad after effects. All recommendations were obeyed, and all necessary attention was given to eyes, tonsils, teeth, nose and throat.

Training in religion holds first rank. It is the heart, the soul, the living principle. When a child is in troublesome mood she will murmur about "All the old prayers" but such moods are transient. As soon as understanding with appreciation of the Faith is kindled in these young hearts the work of restoration proceeds within and needs guidance, only, from exterior influences. Their love for the liturgy and for church services is a subject of deep wonderment.

The children who were placed did not give great consolation. Seven children returned to the School, three of whom were unsatisfactory, seven were placed in other Institutions, two returned from escape, two attained majority, one married, and eleven gave satisfaction in placement. A number spend the free afternoon week after week at the Convent. In this way they keep contact with their teachers and with one another.

At the end of March, 1937, there were 60 pupils in residence. During the twelve months following there were thirty-three changes on the side of admissions and thirty changes on the side of dismissals. On April 1, 1938, there were 63 pupils in residence.

We have the honour to remain,

Yours respectfully,

The Sisters of Our Lady of Charity.
S.M.

REPORT OF ST. JOHN'S INDUSTRIAL SCHOOL, TORONTO

April 1st, 1937 to March 31st, 1938

The healthy appearance and excellent physical condition of the boys of the school is often a subject of surprised comment by visitors. All too frequently the boys arrive at the school in poor condition, pale, anaemic, and suffering from minor ills due chiefly to inadequate care at home. The careful check-up that each boy receives from the medical men at the clinics, the physical examination on admittance and the weekly supervision of our physician and dentist, together with the wholesome amounts of sleep, exercise and food of the school routine, soon puts most of the lads in good physical condition.

Hospitalization with surgical treatment reached a new peak during the past year with 42 cases of tonsillectomy, 27 cases of phimosis, 1 hernia, 1 varicocele, 1 partial correction of leg deformity and 2 cases for correction of old hand disabilities. An additional four boys were given hospitalization for pneumonia and one for rheumatic fever. The recovery in each case was quite satisfactory. Through the excellent co-operation of Dr. Farquharson, medical health officer for the district, and Dr. Fraser of the Connaught Laboratories, tests were made on all boys for tuberculosis, diphtheria and scarlet fever. These were followed by chest X rays and inoculations where indicated. We fortunately escaped the epidemic of infantile paralysis which raged last fall.

Under the supervision of Dr. Godsoe, the school dentist, careful surveys and follow up work was carried on in our dental clinic. A total of forty-six clinics were held in the school and an additional forty-one visits were made by boys to the dentist's city office for special treatments. The records comprise a total of 316 restorations, 110 extractions under novocain anaesthesia, 33 X-rays, 20 root canal dressings, 14 pyorrhoea treatments, 6 cases involving dental surgery, 2 partial plates and one inlay.

The re-instatement of the boys under our care is the main problem in hand and naturally all activities are pursued with this goal in view. One of the foremost factors in the development of the boy is his religious training. Daily Mass, morning and evening prayers, the frequent reception of the Sacraments under conditions designed to make it spontaneous and natural on the part of the recipient, regular public and frequent private instruction, all tend to strengthen the boys' moral fibre and to reorient them ethically. The boys again participated in the Holy Name parade on June 13th, and received the usual compliments on their manly and dignified bearing. On July 15th, His Excellency, Archbishop McGuigan, visited the school and administered the Sacrament of Confirmation to 45 boys who had prepared for the occasion by following a special course of instruction.

The constant profitable and pleasurable occupation of the boy is also an outstanding factor in his development. Fully 85 per cent. of the boys spend half day in school and half day in occupational or trade work. Our academic work is so arranged that grades from primer to second year high school is covered. A retardation is to be expected in the delinquent population and for some of the boys with lowest mental age, the most elementary course of instruction must be given. An opportunity class has been conducted for a number of years and has produced excellent results. Nearly all the boys, even the most backward, learn to read and write and perform simple calculations. The progress of some of them is quite commendable. At the other end of the mental scale there are a number of boys whose academic standing is very satisfactory. During the year 6 boys obtained High School Entrance standing and 17 followed a modified High School programme with a good deal of profit.

The vocational development continues to give satisfaction. With the smooth functioning of the tailoring, printing, baking, shoemaking, gardening and barbering trades and the opportunities for carpentry, painting and general repair work afforded in plant maintenance, the new interests developed, the manual skills attained, are no small incentives in our character building programme.

The recreational programme is designed to provide active participation for all according to age and ability. School leagues are maintained in each seasonal sport with every boy participating in a regular schedule of games. Additional exhibition games were played with outside teams in hockey, rugby, baseball and lacrosse. Three hockey teams, one hardball and one softball team were entered in city league competition. Two of our hockey teams won the distinction of representing the Catholic Youth Organization of Toronto in a hockey tournament held in Midland, Ontario, on March 13th. One of our lacrosse teams participated in the Ontario Lacrosse Tournament held in Burlington on October 2nd. Gymnastics, reading, hobbies, harmonica and singing were regular features of our programme. During the summer months each boy, in addition to his regular half day shop work, participated in a special half day programme comprised of such activities as Danish Drill, Indian Clubs, Dumb-bells, track and field work, tumbling, pyramids, swimming, singing, harmonica, fretwork and gardening. Outings were provided to the Maple Leaf Stadium, Canadian National Exhibition, Varsity Arena, Maple Leaf Gardens and Kingswood Theatre. From September 6th, to September 21st, the entire school population enjoyed the privileges and healthful surroundings of De La Salle Camp at Jackson's Point, Ontario.

In the fall of the year, new stand pipes with fire hose were installed on each floor of the main building and safety devices were provided in shoe department, bake shop, tailor shop and printing department on the recommendation of Department Inspectors. A horizontal bar was procured and erected in the gymnasium on November 27th, forming a popular addition to our gymnastic equipment.

Placement and follow-up work was again under the supervision of our full time placement officer. A total of 866 visits were made during the year to boys in their own homes, farm homes and boarding homes. In some instances it was found advisable to have paroled boys report periodically to Big Brother Representatives, Probation Officers or Parish Priests. Further contacts were kept up by means of monthly correspondence and by occasional visits to the school, particularly by Toronto boys.

The co-operation of our staff and the friendly relations and usual good spirits of the boys themselves formed no small contribution to the success of the year's work.

Brother Cyril,
Superintendent.

REPORT OF
ST. JOSEPH'S INDUSTRIAL SCHOOL, ALFRED, ONTARIO

April 1st, 1937 to March 31st, 1938

Attendance Report

Number in Residence, April 1st, 1937	93
Number in Residence, March 31st, 1938	96
Average Daily Attendance	92

Health

The general health of the boys has been good. Each boy, on entering the School, was given a complete physical examination and all recommendations made were attended to at once. There were no cases of serious illness during the period under consideration, no deaths, no contagious disease, however colds and sore throats were frequent during the winter months. Dr. J. R. Tittley, the doctor in attendance on the School, gave regular and devoted attention to his work. Twelve operations were performed: 7 Tonsilectomies; 5 Circumcisions.

Regular Dental Clinics were held at the School each Tuesday by Dr. H. H. Kirby. There were in all: 209 Examinations; 139 Fillings; 60 Extractions; 1 Bridging; 1 Cleaning.

Academic Department

The academic division was organized in September as a four-teacher school embracing all the grades of the Public School Curriculum adapted to the class of boys we receive. A new classroom was opened this year and new furniture bought to provide the pupils with th enecessary accommodation. There was one full-time class grouping forty boys under twelve years of age, taught by a teacher who obtained a certificate last summer at a special course given in Toronto for those desirous to qualify for Auxiliary Classes. The other three rooms were part-time classes only. As most of the residents in our School were bilingual, careful attention was given by the Academic Staff to both languages, English and French.

Special Activities

In addition to regular teaching, the Staff is responsible for the following: Supervision of the School Library frequented by fifty boys every evening at 7.45 and on Sundays at 5 p.m. Most readers were interested in fiction, but a few took non-fiction books relating to scientific subjects. Regular singing lessons were given every week and instrumental music was taken by some of the boys as a hobby. There was a small School orchestra which proved very handy on certain occasions, specially on the feast of St. Catherine, a French Canadian Celebration (Nov. 25), Christmas, and twice a year, on amateur and gymnastic contests. The songs and hymns taught for the religious service in our chapel or for other occasions were always chosen with a view to be agreeable to both the French and the English speaking boys. Drawing lessons were given every Sunday morning from 10 to 11.30; and paper cutting and cardboard constructions were taken as a hobby by some of the junior boys. There was also a Junior Red Cross Society grouping thirty-one members.

Annual Inspection

The annual inspection of the classrooms was held in the Fall by Inspector J. S. Gratton who was sent to the School by the Welfare Department to inspect classes. He stayed a few days in the rooms and expressed his satisfaction for the work being done by the teaching staff and for the good spirit manifested by the pupils.

Religious and Moral Training

Classes in religious instruction were held every day, the pupils being divided in four separate groups; two English and two French groups. Religious service was conducted in our chapel every morning and the boys had frequent opportunities to approach the Sacraments if they wished to do so. One boy made his first Communion in our chapel and this event was the occasion of agreeable religious ceremonies. A spiritual retreat was preached by a special missionary in March and most of the pupils listened with keen attention to the moral instructions given. Those boys whose School records were satisfactory were authorized to take part in the following events: Corpus Christi's procession and a celebration at St. Joseph's Oratory in Montreal. The pupils who belonged to the Honour Section of the School received as a testimony of satisfaction, a small cross to wear on the lapel of their coat. Twelve of them obtained this honorary distinction which they were proud to show to their parents and visiting friends. The Superintendent gave a weekly talk to the whole School in both languages and profited by this occasion to impart instruction in manners, deportment, morals and at the same time to give some kind of reward to the best boys. This innovation helped to create and maintain a commendable family spirit and in fact, except for two or three days, the School spirit was quite satisfactory.

Physical Training

Gymnastics was rightly considered to be one of the main organizations of the School and athletics have been an important part of our recreational programme. Every day in the evening from 7.30 to 8.30, seventy-five boys were given the privilege of some interesting kind of physical training; and sometimes, these exercises would be given three or four times a day during the dull seasons or when the weather was too inclement to permit of any sportive activities to be conducted out of doors. The pupils were divided into four groups and the coveted aim among the young athletes in each group was to be promoted to a higher group until they reached the first which was the only one to be permitted to go abroad to give exhibitions on certain celebrations and festivals. The School has been invited to give gymnastic displays at the Forum, in Montreal; in Ottawa, on the occasions of the Centenary Celebration of the coming of the Christian Brothers in Canada; at St. Joseph of Orleans, Greenfield; Alfred's Exhibition Gratton's Park in Hull; Glen Nevis and Alexandria. The programme was always the same with a few changes here and there based on the aim in view. Each group had yearly contests and the Annual Demonstration of Physical Training was one of the outstanding events of the year. One good effect of P.T. apart from the individual benefits derived by the participants themselves was to develop a spirit of co-operation among the boys and to incite them to good behaviour and good work. In fact, the best athletes were found only in the Honour and Excellent Sections of the School and they were also noted as the best tailors, the best shoemakers, the best baseball and hockey players.

Organized League Sports.

Varying with the seasons, the sports participated in were: baseball, hockey, pass-the-ball game, swimming, and indoor games. In baseball the School team took part in the play-off games but did not win the championship of the season. Hockey was also very popular as it was the first year that the School had a hockey team strong enough to enter in a City League; and the boys did so well that they won the championship and the cup given by Dr. Larocque of Alfred to encourage the winter sports. This unexpected success had a splendid effect on the pupils and even the smallest boy would look upon himself as if he had won the championship. To celebrate this unusual event three banquets were given, one of which was enjoyed by the whole School.

VOCATIONAL TRAINING

Woodworking Report.

Nineteen boys were apprenticed to this department. One of the main projects executed was the construction of three miniature houses from the foundation to the roof. The pupils received regular instructions and were taught to do their own planning and drafting, and to realize their designs with the least amount of waste of material and time. They made also, small tables, picture frames, smokers' stands, three sleighs, one step-ladder, and eighty-nine bird-houses. As far as machine work was concerned they made: baseball bats, tool handles, lamp shades, candlesticks, bowls and table legs.

Basketry.

Under the same administration, we find the Basketry Division occupying six boys in the art of the Reedcraft. The boys elected this work as a hobby rather than a regular occupation. They made: floor lamps, stained or finished in natural colour; square table lamps; sewing baskets; fern stands; magazine racks; window flower boxes; jardiniere stands, and hanging baskets. The maintenance work included the repairing of 125 chairs, lockers in the basement, desks, the tearing down of a wall of the building to accommodate the Binding Division, the repainting of one corridor, all the beds, stairways and window-sills, changing the tablecloths in the boys' refectory and reseating caned chairs. Four boys took weaving also as a hobby and succeeded in weaving small carpets and crocheting berets. Those two hobby classes were held irregularly, depending upon favourable conditions.

The *Book-binding* Department provided new activities to four apprentices who chose to take up this work during the year. The boys were given regular lessons in the afternoon four times a week. Their work consisted in repairing old books of daily use. A new section of the trade building is under construction to provide more room for the stores and work shops of this department.

Shoe Department.

During the year, additions to the equipment and space have made it possible to accommodate larger classes and provide a more extensive programme of instruction and production. The number of apprentices is eleven with six coming to the department only in the afternoon. Five boys know the trade well enough to work on their own account at least with ordinary work. The shops were supplied with the following new equipment:

2 Sewing Machines at a cost of	$90 each
1 Splitting Machine	$80
1 Amazeen Skiver	$75
1 Rivetting Machine	$40

The shoe shop is outfitted with machinery for making working boots only, but it is question of developing in the near future, the fancy shoe trade to provide the apprentices with a better chance to earn their living. The boys made: 300 pairs of Boots; 2 Outfits for hockey teams; 2 Harnesses; 80 pairs of Slippers; 54 Portfolios, Purses, Wallets and other small articles.

The Maintenance Work included: 1,423 General Repairs; 611 pairs of Skates sharpened.

Two boys were placed in the neighbouring communities as shoemakers; both are doing well, and when they are handicapped they generally come to the School to get supplementary information about their trade.

Tailoring Division.

This department was always very active this year with its forty apprentices most of them working from the pattern to the finished product. Eight of those boys were full-time workers. This division is credited with: 256 Complete Suits; 60 Aprons; 62 Linen Bags; 100 Curtains; 142 Shirts; 311 Towels.

Thirteen tailors who completed their trade at the School were given jobs on leaving the Institution and some of them succeeded in keeping their position. The maintenance work included the mending of more than 200 articles of clothing every week. The apprentices were helped in the work of mending the clothes by some of the ladies of the locality who devoted a certain number of hours weekly in repairing the socks and stockings of the pupils.

Metal Work Department.

There were only three apprentices taking this trade who, with their Instructor, were credited with the following: 4 Sleighs; 1 Waggon; 1 Express; 5 Truck Racks.

They repaired: wheels, agricultural instruments, trucks. Inside the building they made $300 worth of reparation to the main water pipe and radiators.

Agricultural Division.

Six boys were apprenticed to the Farm Department. They were called upon to help out with the general farm work. The milking was done by the boys as well as cleaning the stables, grooming the cows, and the preparation of the feed. Visitors were favourably impressed by the neatness of the cattle and the tidiness of everything around the Farm.

The Production Report includes:

Potatoes	1,164 bags
Turnips	174 "
Beets	181 "
Carrots	142 "
Onions	1 ton
Hay	35 tons
Ensilage	76 "
Oats	400 bus.
Barley, Buckwheat	102 "

Animals:

Horses	3
Cattle	28
Swine	26

The School Grounds cover 167 acres, and 150 of which were under cultivation last summer. A perennial border was planted out in front of the main entrance of the Buildings and the boys not on special duties helped in planting more than 1,500 shrubs which are making a good showing this season.

At the Regional Exhibition our School obtained 29 prizes:

Farming and Gardening	23 with 18 First Prizes
Maple Syrup and Sugar	2
Shoemaking	2
Tailoring	2

Maple Syrup Industry.

The season was unusually good. It occupied ten boys for three weeks in March and April. The pupils were very much interested in this work and consequently only the best boys in the Honour and Excellent Sections were chosen to help around the sugar-bush. They made themselves useful in a general way and served as waiters on reception days at the sugar-bush log-cabin. During the season 751 maples were tapped, 76 barrels of sap-water were collected and 200 gallons of maple syrup were made.

PLACEMENT OFFICER'S REPORT

Number of visits made to boys	142
Boys placed in Foster Homes	10
Boys placed on Farms	8
Returned Home to attend School	18
Miscellaneous Positions	14
Unemployed	3
Whereabouts Unknown	3
Returned to the School	8

The School Staff was augmented by two additional hands this year.

(Sgd.) BRO. JEROME,
Superintendent.

STATISTICAL REPORT ADVISORY BOARD FOR INDUSTRIAL AND TRAINING SCHOOLS

April 1st, 1937 to March 31st, 1938

NUMBER OF CASES REVIEWED

	St. Mary's Industrial School, Toronto	St. John's Industrial School, Toronto	St. Joseph's Industrial School, Alfred	Girls' Training School, Galt	Boys' Training School, Bowmanville	Total
Designations	21	75	50	43	193	382
Designations held in abeyance	....	....	....	....	2	2
Applications for Admission to Training Schools Approved	....	....	....	20	36	56
Applications for Admission to Training Schools Refused	....	....	....	....	1	1
Returns to Institutions	13	24	15	43	50	145
Paroles Recommended to Minister and made effective	49	95	54	134	305	637
Paroles Refused	23	6	15	7	20	71
Attendance Reports	164	263	222	111	346	1,106
Placement Reports	79	169	76	155	576	1,055
Wardship Terminated	20	30	14	25	86	175
Requests for Termination of Wardship Refused	....	....	2	3	1	6
Total	369	662	448	541	1,616	3,636

Number of Meetings Held	52
Average number of cases reviewed at each meeting	70

INDUSTRIAL AND

COMMITTALS

FOR YEAR ENDING

	Committed by Court	Admitted by Application	Total	Male	Female	City	Town	Township	AGES							
									9	10	11	12	13	14	15	16
Algoma District	5		5	4	1	2	2	1					1	3	1	
Brant	1		1	1		1					1					
Bruce	2		2	2				2				1		1		
Carleton	14	1	15	13	2	14	1		1	2	1	1	3	2	5	
Cochrane District	13		13	13		6	4	3		1	3	1	3	3	2	
Elgin	1		1	1				1							1	
Essex	26		26	18	8	21	3	2			1	1	6	7	11	
Frontenac	3		3	2	1	3				1				1	1	
Grey	2		2	2		2						1			1	
Haldimand	1		1	1			1					1				
Halton	3		3	3			3		1			2				
Hastings	11		11	6	5	4	5	2			2		3	3	3	
Kenora District	7		7	7			5	2	1	1	2		2	1		
Kent	9		9	6	3	5	2	2		1			5	2	1	
Lambton	4		4	2	2	1	2	1					1	3		
Leeds and Grenville	1		1	1			1						1			
Lennox and Addington	1		1	1				1						1		
Lincoln	9		9	9		2	7			1	1		2	2	3	
Middlesex	8	1	9	7	2	7	2							4	5	
Muskoka District	1		1	1			1							1		
Nipissing District	5		5	3	2		4	1		1			2	1	1	
Norfolk	1	1	2		2		2								2	
Northumberland and Durham	6		6	6			5	1	3			1			1	1
Ontario	2		2	2		1	1						1	1		
Oxford	2		2	1	1		2							1	1	
Parry Sound District		1	1		1			1	1							
Peel	2		2	2			2						2			
Perth	1		1	1			1							1		
Peterborough		1	1	1		1							1			
Prescott and Russell	2		2	2			2						1		1	
Rainy River District	2		2	2			1	1					1		1	
Renfrew	4		4	3	1		3	1			1		1		2	
Simcoe	19		19	13	6		19				2	2	6	4	5	
Stormont, Dundas and Glengarry	10		10	10		6	2	2	1	1	2	1	2	2	1	
Sudbury District	11		11	10	1	10		1	1	2	1	1		4	2	
Temiskaming District	8		8	5	3		6	2				2	1		5	
Thunder Bay District	12		12	11	1	10		2			1	2	4	2	3	
Victoria	5		5	5			4	1	1		1		1	1	1	
Waterloo	11		11	9	2	9	2					2	2	2	5	
Welland	11		11	9	2	7	3	1			2	1			8	
Wellington	3		3	2	1	2		1						1	2	
Wentworth	28	2	30	27	3	30					3	3	6	6	12	
York	52	45	97	82	15	77	5	15	2	2	7	15	14	27	28	2
Total	319	52	371	306	65	221	103	47	12	13	31	38	72	87	115	3

TRAINING SCHOOLS
AND ADMISSIONS
March 31st, 1938

	Ward of C.A.S.		Others		Cause of Committal or Admission										
	Legitimate	Illegitimate	Legitimate	Illegitimate	Armed Robbery	Arson	Assault	Breaking and Entering	False Pretences	Immorality	Incorrigibility	Malicious Damage	Theft	Truancy	Vagrancy
Algoma District	...	...	5	...	...	...	...	2	...	...	1	...	2	...	...
Brant	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...
Bruce	...	...	1	1	...	...	...	1	...	...	...	...	1	...	...
Carleton	1	...	14	...	...	1	...	3	...	...	1	...	7	3	...
Cochrane District	...	...	12	1	...	...	...	5	1	1	1	...	5	...	...
Elgin	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...
Essex	3	...	23	...	...	...	...	7	...	2	10	...	6	1	...
Frontenac	1	...	2	...	...	...	...	...	...	1	...	...	2	...	...
Grey	...	...	1	1	...	...	...	1	...	...	...	...	1	...	...
Haldimand	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...
Halton	...	...	3	...	...	...	...	...	...	...	...	...	3	...	...
Hastings	1	...	10	...	...	...	...	4	...	2	3	...	2	...	...
Kenora District	...	...	6	1	...	...	...	3	...	...	...	...	4	...	...
Kent	2	...	7	...	...	...	...	2	...	...	4	...	3	...	...
Lambton	...	...	4	...	...	...	...	...	...	...	2	...	1	...	1
Leeds and Grenville	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
Lennox and Addington	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Lincoln	...	...	9	...	...	...	...	1	...	...	1	...	7	...	...
Middlesex	1	2	6	...	...	...	...	1	...	...	2	...	4	2	...
Muskoka District	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...
Nipissing District	...	...	4	1	...	...	...	...	...	2	3	...	...	...	...
Norfolk	1	...	1	...	...	...	...	...	...	1	1	...	...	...	...
Northumberland and Durham	...	...	6	...	...	...	...	...	...	...	...	...	5	1	...
Ontario	...	...	2	...	...	...	...	...	...	...	2	...	...	...	...
Oxford	...	...	2	...	1	...	...	...	...	1	...	...	...	...	...
Parry Sound District	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
Peel	...	...	2	...	...	...	...	...	...	...	...	...	2	...	...
Perth	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...
Peterborough	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Prescott and Russell	...	...	2	...	...	...	...	...	...	...	1	...	1	...	...
Rainy River District	...	...	2	...	...	...	...	1	...	...	...	...	1	...	...
Renfrew	1	...	3	...	...	...	...	...	...	...	1	...	2	...	1
Simcoe	3	1	14	1	...	...	...	1	...	4	9	...	5	...	...
Stormont, Dundas and Glengarry	...	...	10	...	...	...	...	...	...	...	...	...	9	...	1
Sudbury District	...	1	10	...	...	...	...	5	...	2	2	...	2	...	...
Temiskaming District	...	...	8	...	...	...	...	1	...	1	2	...	3	1	...
Thunder Bay District	...	...	11	1	...	...	...	3	...	...	2	...	7	...	...
Victoria	...	...	4	1	...	...	...	...	...	1	4	...	...	...	...
Waterloo	2	...	8	1	...	...	...	4	...	...	3	...	4	...	...
Welland	1	...	9	1	...	1	...	...	...	1	3	...	5	1	...
Wellington	...	...	3	...	...	...	...	1	...	1	...	...	1	...	...
Wentworth	1	...	27	2	...	...	...	7	1	2	4	...	13	3	...
York	18	5	70	4	...	...	1	10	...	6	38	1	30	9	2
Total	38	10	307	16	1	2	1	64	2	31	102	1	141	21	5

SUMMARY OF ATTENDANCE IN INDUSTRIAL AND TRAINING SCHOOLS

April 1st, 1937 to March 31st, 1938

	St. Mary's Industrial School, Toronto	St. John's Industrial School, Toronto	St. Joseph's Industrial School, Alfred	Girls' Training School, Galt	Boys' Training School, Bowmanville	Total
Number in Residence, April 1, 1937	59	107	93	46	188	493
New Commitments or Admissions	19	72	45	46	189	371
Returned from Parole:						
Violation of Parole	6	4	8	18	25	61
Not satisfactory	3	11	3	9	4	30
Services no longer required	1		2	3		6
Pupils dissatisfied	4	3		1	2	10
For re-placement		2	1	11	12	26
For further training		1			4	5
Court Order		5			6	11
Returned from A.W.L.	2	23	8	49	122	204
Total	94	228	160	183	552	1,217
Number of Placements:						
Returned home for school		17	8	6	61	92
Returned home to assist parents	2	2	8			12
Returned home for employment	3	22	14		56	95
To boarding home	1	11	10	18	63	103
To positions (farm, domestic etc.)	16	21	12	42	23	114
Other institutions	7	1	1	7	24	40
Number absent without leave	3	27	11	50	133	224
Number of deaths						
Total	32	101	64	123	360	680
Number remaining in Residence March 31st, 1938	62	127	96	60	192	537

	St. Mary's Industrial School, Toronto	St. John's Industrial School, Toronto	St. Joseph's Industrial School, Alfred	Girls' Training School, Galt	Boys' Training School, Bowmanville	Total
Number remaining out for whole year	20	67	40	46	202	375
Number placed and returned during year	9	7	13	27	28	84
Placed out during previous years and returned during present year	5	19	1	15	25	65

RETURNED FROM PLACEMENT DURING YEAR

	St. Mary's Industrial School, Toronto	St. John's Industrial School, Toronto	St. Joseph's Industrial School, Alfred	Girls' Training School, Galt	Boys' Training School, Bowmanville	Total
After one placement	9	21	11	28	43	112
After two placements	2	3	2	8	8	23
After three placements	3	1	1	2	2	9
After four placements				1		1
After more than four placements		1		3		4
Total	14	26	14	42	53	149

NUMBER OF COURT APPEARANCES PRIOR TO COMMITMENT OR ADMISSION

	St. Mary's Industrial School, Toronto	St. John's Industrial School, Toronto	St. Joseph's Industrial School, Alfred	Girls' Training School, Galt	Boys' Training School, Bowmanville	Total
None	14	13	23	36	67	153
One	4	19	4	5	40	72
Two	1	11	7	4	26	49
Three	....	10	4	1	18	33
Four	....	2	2	....	15	19
Five or more	....	17	5	....	23	45
Total	19	72	45	46	189	371

NATIONALITIES OF PUPILS COMMITTED OR ADMITTED

	St. Mary's Industrial School, Toronto	St. John's Industrial School, Toronto	St. Joseph's Industrial School, Alfred	Girls' Training School, Galt	Boys' Training School, Bowmanville	Total
Indian	....	4	3	2	2	11
Hebrew	....	....	....	....	1	1
Negro	....	....	....	....	2	2
Canadian	18	54	40	21	166	299
Irish	....	....	....	....	....	....
English	....	1	....	11	2	14
Scotch	....	....	1	2	....	3
American	....	2	....	3	8	13
Other	1	11	1	7	8	28
Total	19	72	45	46	189	371

SCHOOL ROLL AND COMPARISON

	Bed Capacity	In Attendance Oct. 31, 1934	In Attendance Mar. 31, 1935	In Attendance Mar. 31, 1936	In Attendance Mar. 31, 1937	In Attendance Mar. 31, 1938
Alexandra (Closed March, 1936)	143	101	107	....	....	....
Girls' Training School, Galt	94	47	46	52	46	60
St. Mary's Industrial School, Toronto	80	68	71	65	59	62
St. John's Industrial School, Toronto	150	87	90	102	107	127
St. Joseph's Industrial School, Alfred	136	60	64	69	93	96
Victoria Industrial School, Mimico, (Closed November, 1934)	280	92	....	....	....	....
Boys' Training School, Bowmanville	224	138	194	172	188	192
Total	....	593	572	460	493	537
Girls	....	216	224	117	105	122
Boys	....	377	348	343	388	415

	St. Mary's Industrial School, Toronto	St. John's Industrial School, Toronto	St. Joseph's Industrial School, Alfred	Girls' Training School, Galt	Boys' Training School, Bowmanville
Average length of stay in the School, per pupil	3 years 1 month	1 year 10 months	1 year 5 months	1 year 11 months	1 year 4 months
Per diem cost per capita	$0.94	$0.98	$0.85	$1.60	$0.84

MENTALITY OF PUPILS COMMITTED OR ADMITTED

	St. Mary's Industrial School, Toronto	St. John's Industrial School, Toronto	St. Joseph's Industrial School, Alfred	Girls' Training School, Galt	Boys' Training School, Bowmanville	Total
Morons—I.Q. 45-60	4	4	5	....	8	21
High Grade Morons—I.Q. 60-70	3	9	5	6	14	37
Borderline—I.Q. 70-80	7	19	17	8	48	99
Dull Normal—I.Q. 80-90	2	21	11	21	58	113
Normal—I.Q. 90-100	1	16	6	8	42	73
Normal—I.Q. 100-110	2	3	1	2	18	26
Superior—I.Q. 110 and over	....	....	....	1	1	2
Total	19	72	45	46	189	371

FACTORS CONTRIBUTING TO DELINQUENCY OF THOSE COMMITTED OR ADMITTED

	St. Mary's Industrial School, Toronto	St. John's Industrial School, Toronto	St. Joseph's Industrial School, Alfred	Girls' Training School, Galt	Boys' Training School, Bowmanville	Total
Alcoholic Parents	....	2	3	1	1	7
Desertion in Home	2	3	2	1	13	21
Either parent immoral	2	4	3	4	4	17
Either parent mental defective	1	1	....	4	5	11
Either parent with court record	1	6	5	....	7	19
Father dead	1	3	4	....	8	16
Mother dead	2	6	2	8	14	32
Parents dead	....	....	1	....	3	4
Fair home but no control	1	20	7	11	32	71
Poor home and no control	5	9	7	7	50	78
Stepfather	....	....	1	2	2	5
Stepmother	....	3	....	1	1	5
Parents separated	2	3	7	6	27	45
Associations	2	7	3	1	14	27
Mentality of Child	....	5	....	....	8	13
Total	19	72	45	46	189	371

ACTIVITIES OF RESIDENTS DURING YEAR

	St. Mary's Industrial School, Toronto	St. John's Industrial School, Toronto	St. Joseph's Industrial School, Alfred	Girls' Training School, Galt	Boys' Training School, Bowmanville
Full time in Classroom	28	14	28	79	114
Part time in Classroom	65	107	41	....	417
Full time in Vocational Shops	28	6	27	....	57
Part time in Vocational Shops	65	107	41	55	462
Culinary Department	60	20	3	48	96
Sewing	70	....	....	29	....
General Domestic	30	....	2	15	....
Hairdressing	10	....	....	8	....
Barber Shop	....	3	3	....	19
Carpentry	....	4	7	....	20
Farming and Horticulture	....	15	8	....	142
House Maintenance	....	4	....	134	31
Laundry	40	....	2	14	....
Metal Work	....	....	1	....	55
Office	....	....	....	....	6
Printing	....	14	....	....	....
Shoe Making	....	21	10	....	86
Tailoring	....	26	32	....	....
Wood Working	....	....	....	....	70

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